U.S. Army Automated Movement and Identification Solutions (AMIS) Passive Radio Frequency Identification (pRFID) II

Contract W52P1J-13-D-0043

pRFID User & Pricing Guide

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Prepared for:

Mr. Bryan Keys
Contracting Officer's Representative
PD Automated Movement and Identification Solutions
1420 Jackson Loop
Fort Belvoir, VA 22060

Prepared by:
SRA International, Inc.
(A CSRA Company)
15036 Conference Center Drive
Chantilly, VA 20151

Change Control

Rev	Date	Author	Description
0.1	4/19/2013	SRA	Initial draft of pRFID User Guide
0.2	8/12/2013	SRA	Updated to incorporate revisions/comments from PD AMIS
0.3	9/26/2013	SRA	Revised to incorporate revisions/comments from PD AMIS and incorporate CCP updates
1.0	9/26/2013	SRA	Finalized document
1.1	7/11/2014	SRA	Revised to incorporate CCP changes and product retirement updates: 1. CCP PSR0004: Removal of SLIN005 and related accessories 2. CCP PSR0005: Updates to SLIN007 Smart Table reader
1.2	10/24/2014	SRA	Revised to incorporate CCP changes: 1. CCP PSR0006: Addition of SLIN 0015 AG Omni-ID Flex Medium Range Asset Tag
1.3	11/11/2014	SRA	Revised to incorporate CCP changes: 1. CCP PSR0007A: Addition of Bartender Pro label software to CLIN 0009 AA- AF
1.4	12/18/2014	SRA	Revised to incorporate: 1. Text updates to Table 2-1 2. Updated quantity in Table 3-1 3. Updated part numbers and descriptions in Section 10: pRFID-II CLIN Pricing
1.5	7/20/15	SRA	Revised to replace Program Manager Scott Ready, with Christiane “Chris” Rhodes
1.6	9/14/15	SRA	Revised to incorporate CCP changes CCP PSR0008 addition of GR Aware software for devices and servers, with 3, 4 and 5 year maintenance. SLINs 0017AD-0017AI
1.7	11/6/15	SRA	Revision to incorporate CCP PSR 0009 to add the SMARTRACK software and CCP PSR 0010 to add the Impinj X portal. Changed the COR from Klaus Stroup to Bryan Keyes
1.8	3/22/16	SRA	Revised to incorporate 1. Added language to indicate CLIN X0015AD is in “Reserved” status.

			2. Changed existing @sra email addresses to new @csra format 3. Changed references of "PD AMIS" to "AMIS" 4. Changed "SRA International" to CSRA where appropriate

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1. INTRODUCTION

1.1. PURPOSE

The purpose of this User & Pricing Guide is to assist Government personnel in determining the system configuration that will best meet their Passive RFID operational requirements. This User & Pricing Guide is aligned with the Pricing CLIN/SLIN structure to enable prospective users to formulate potential solutions utilizing CLINs/SLINs within the contract that best meet their operational requirements.

1.2. PROGRAM PROFILE

Table 1-1: Program Profile

Elements of Identification	
Contract Type	Single Firm Fixed Price (FFP) with reimbursable ODC and travel CLINs
Period of Performance (PoP)	March 20, 2013 to December 19, 2016
Vehicle (Program)	Indefinite Delivery Indefinite Quantity (IDIQ)
Contract Number	W52P1J13D0043
Prime Contractor	SRA International, Inc (A CSRA Company)
Vehicle Organization	US Army Automated Movement and Identification Solutions (AMIS)
Vehicle Name	Passive Radio Frequency Identification II (pRFID II)

1.3. SCOPE

The pRFID II Contract provides hardware, software, documentation, and, incidental services to authorized users worldwide. This contract is open for use by DoD, the US Coast Guard, and NATO partners. Contract services include training, warranty, maintenance, and technical engineering services (TES). TES are turnkey solutions to fully implement pRFID technology into new and/or existing architectures.

1.4. POINTS OF CONTACT

Table 1-2: Points of Contact

Role	Contact Information
Army Contract Officer's Representative	Mr. Bryan Keys bryan.d.keys.civ@mail.mil (703) 806-0541
SRA Program Manager	Mr. Thomas Scatamacchia Thomas.scatamacchia@csra.com (571) 245-4284
SRA Contract Administrator	Ms. Huma Anwar Huma.anwar@csra.com (703) 502-1292
SRA Technical Director	Mr. Damon Bramble Damon.bramble@csra.com (860) 501-3478

1.5. ORDERING PROCEDURE AND GUIDE

The pRFID II IDIQ contract is decentralized for ordering purposes. Any Federal warranted Contracting Officer can place Delivery Orders and Task Orders against this contract. The IDIQ contract provides for a three-year ordering base period from time of contract award, plus two one year option periods for maintenance. All ordering after the Base Period is subject to the Government's Option to Extend the Term of the Contract. All pRFID products including TES and warranties are identified in Section 10. The

appropriate SRA Points of Contact (POC) are identified in Section 1.4. The pRFID II Help Desk is accessible by phone: (703) 284-3223 and via e-mail: pRFID@sra.com. For more information on the pRFID II ordering procedures, please refer to http://www.ait.army.mil/Contracts/prfidii/prfidii.html.

2. HARDWARE

2.1. pRFID Fixed Readers

2.1.1.Overview

A fixed reader is the solution for inserting visibility of tagged material at fixed chokepoints. Examples of this are dock doors and conveyor lines. Generally required for this type of solution is the fixed reader itself, a power supply and AC cord and 1-4 antennas, depending upon the size of the desired read zone. These items are included in the SLINs below. Optionally Input/Output devices such as motion sensor triggers and stacklights can be used with this device. The solutions below incorporate built-in mounting solutions as indicated, though additional mounting (e.g. Door portals, NEMA enclosures and custom antenna brackets) may be required. The fixed reader is a network device controlled by middleware installed on a local server. For more information about this, please see Section 4.1 of this UG.

2.1.2.SLINs

Table 2-1: pRFID Fixed Reader SLINs

SLIN 0001 AA	Intermec IF2A000014	3 Year Warranty	For FCC Use
SLIN 0001 AB		4 Year Warranty	
SLIN 0001 AC		5 Year Warranty	
SLIN 0001 AE	Intermec IF2A000002	3 Year Warranty	For ETSI Use
SLIN 0001 AF		4 Year Warranty	
SLIN 0001 AG		5 Year Warranty	
	Included in 0001 AA-AG	Mounting Hardware	
SLIN 0001 AH	Impinj xPortal	3 Year Warranty	For FCC Use
SLIN 0001 AI	Impinj xPortal	3 Year Warranty	For ETSI Use

Figure 2-1: Intermec IF2 pRFID Fixed Reader

2.1.3.Description:

The Intermec IF2 is a compact, cost-effective network reader designed to support diverse passive UHF RFID applications in both enterprise and industrial environments. The IF2 supports Power over Ethernet, four mono- or bi-static RF ports, built-in powered general purpose input output (GPIO) control, and both standards-based low level reader protocol (LLRP) and Intermec's easy to use Basic Radio Interface (BRI) application interfaces, enabling scalable low-cost deployments for improved return on investment (ROI). The IF2 is packaged in a durable enclosure for nearly any environment and is factory configured to operate in regions across the globe. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical detail on the IF2, refer to Appendix A: SLIN 0001 pRFID Fixed Reader.

2.1.4.Included:

Included in SLIN 0001 AA – AG is the AC adaptor and power cord, a mounting bracket, CD with documentation & demonstration software, and two (2) Circular Polarized Antennae described below.

Figure 2-2: Intermec pRFID Circular Polarized Antenna

SLINs 0001 AA-AC include two (2) Intermec IA33G Circular Polarized antennas.

SLINs 0001 AE-AG include two (2) Intermec IA33F Circular Polarized antennas.

For more Technical information on the antennas refer to Appendix B: SLIN 0001 Circular Polarized Antenna.

2.1.5. Description

The Impinj Speedway xPortal, is an integrated portal reader that incorporates the Speedway Revolution reader with Impinj's Dual-Linear Phased Array (DLPA) antenna technology, providing a compact installation form factor and a highly flexible pRFID portal solution suitable for installations in office spaces as well as in warehouses**.** The xPortal is light-weight, low profile measuring approximately 30.5 x 8.75 x 2 inches and weighing less than 6.5 lbs. The portal is designed for office, warehouse, and other indoor environments. It is ideal for monitoring tagged items, pallets, equipment, files or people passing through doorways, hallways, or other zonal coverage areas.

NOTE: Please note the Impinj xPortal is neither HERO nor EMC certified. The equipment will be used at their own risk and never in an environment that warrants having HERO certified devices.

2.1.6.Included

Included in SLINS 001AH and 001AI IPJ-REV-R640-FCC are the xPortal without power supply/power cord, Universal Power Supply without AC Power Cord,IPJ-A2051-USA - AC Power Cord (USA), IPJ-C2002 - 3 Year Warranty

Figure 2-3: Impinj Speedway xPortal

2.2. pRFID Vehicle Mount Fixed Readers

2.2.1. Overview

A vehicle mount fixed reader is the solution for inserting visibility of tagged material when a stationary choke point is not a viable solution. Examples of this are forklifts or other mobile material handing devices. The power for this device is generally provided by the vehicle battery, and a DC-DC power supply is provided in the SLINs below. Antennas are also required for this device, and two (2) are included in the SLINs below. This device is connected to and controlled by a vehicle mounted mobile computer via provided serial cable. This computer is included in the SLINs below. For more information about this, please see Section 4.1 of this UG.

2.2.2. SLINs:

Table 2-2: pRFID Vehicle Mount Fixed Reader SLINs

SLIN 0003 AA	Intermec IV7D202014	3 year warranty	For FCC Use
SLIN 0003 AB		4 year warranty	
SLIN 0003 AC		5 year warranty	
SLIN 0003 AD	Intermec IV7D202002	3 year warranty	For ETSI Use
SLIN 0003 AE		4 year warranty	
SLIN 0003 AF		5 year warranty	

Figure 2-4: Intermec IV7 Vehicle Mount pRFID Reader

2.2.3. Description:

The Intermec IV7 is a rugged UHF pRFID tag reader designed to be mounted on a vehicle for mobile use and operation in harsh industrial environments. The IV7 is IP65 rated and supports up to 4 antennae. It is designed to be connected serially to the DLI-9200 series rugged mobile computer. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information about the IV7 refer to Appendix C: SLIN 0003 Vehicle Mount pRFID Reader.

2.2.4. Included:

Included in SLINs 0003 AA-AF are the DC power supply kit and cables, two (2) Circular Polarized Antennae, and DLI-9200 Vehicle Mount Computer with power supply, dock and communication cables.

Figure 2-5: DLI-9200 Vehicle Mount Computer

Figure 2-6: Intermec pRFID Circular Polarized Antenna

SLINs 0003 AA-AC include two (2) Intermec IA33E Circular Polarized antennas.

SLINs 0003 AD-AF include two (2) Intermec IA33D Circular Polarized antennas.

2.3. pRFID Handheld Readers

2.3.1. Overview

A handheld pRFID reader is the solution for inserting visibility into processes that can occur in many locations. Examples of these processes are picking, packing, putaway, delivery, receipt and inventory. Handheld readers are made up of multiple components. There is a mobile computer, a pRFID reader/antenna combination, a docking/charging station, Common Access Card (CAC) authentication device, holster and all of the cables and adaptors necessary for connectivity (For more technical information on the CAC authentication device refer to Appendix E: SLIN 0005 CAC Authentication Device). Handheld readers come with two batteries (one operational and one spare). The devices are connected wirelessly and managed by software on a local server, for more information about this; see Section 4.1 of this UG.

2.3.2. SLINs HHR-A

Table 2-3: pRFID Handheld Readers (A) SLINs

SLIN 0005 AA	Intermec CN70GQ4KN14G6X40	3 Year Warranty	For FCC Use
SLIN 0005 AB		4 Year Warranty	
SLIN 0005 AC		5 Year Warranty	
SLIN 0005 AD	Intermec CN70GQ4KN02G6X40	3 Year Warranty	For ETSI Use
SLIN 0005 AE		4 Year Warranty	
SLIN 0005 AF		5 Year Warranty	
SLIN 0005 AG	Intermec 318-043-112	Rechargeable Battery	
SLIN 0005 AH	Intermec DX1A01A10	Battery Charger/Communications Dock	
SLIN 0005 AJ	Apriva BT200-T	CAC Reader with Software, and wall charger	
SLIN 0005 AK	Intermec 815-074-001	Carrying Device	
SLIN 0005 AL	Intermec 851-094-001 Intermec 1-974028-025 Intermec 850-567-001 Intermec VE011-2018	AC Adapter & Snap-on USB Adaptor w/ cables	

Figure 2-7: Intermec CN70 RFID Handheld Reader

2.3.3. Description HHR-A:

The Intermec CN70 RFID is an ultra-rugged mobile computer that combines passive UHF reading and mobile computing packaged in an optimal size, weight and rugged unit. The UHF pRFID reader is fully integrated with no visible external antenna. HHR-A is not certified for non-incendive (NI) operation. It also includes a barcode scanner, 2D imager and supports VoIP/Speech Recognition/Push to Talk applications. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on the CN70 refer to Appendix D: SLIN 0005 pRFID Handheld Readers (CN70).

2.3.4. Included HHR-A:

Included in SLINs AA-AF are 2 GB storage card, Flexdock, power adaptor and cables, trigger handle two batteries (one operational and one spare).

Figure 2-8: Intermec Trigger Handle

Figure 2-9: Intermec Flexdock

2.3.5. SLINs HHR-B

Table 2-4: pRFID Handheld Readers (B) SLINs

SLIN 0005 BA	Intermec CN70GQ4KN14G6X40	3 Year Warranty	For FCC Use
SLIN 0005 BB		4 Year Warranty	
SLIN 0005 BC		5 Year Warranty	
SLIN 0005 BD	Intermec CN70GQ4KN02G6X40	3 Year Warranty	For ETSI Use
SLIN 0005 BE		4 Year Warranty	
SLIN 0005 BF		5 Year Warranty	
SLIN 0005 BG	Intermec 318-043-112	Rechargeable Battery	
SLIN 0005 BH	Intermec DX1A01A10	Battery Charger/Communications Dock	
SLIN 0005 BJ	Apriva BT200-T	CAC Reader with Software, and wall charger	
SLIN 0005 BK	Intermec 815-074-001	Carrying Device	
SLIN 0005 BL	Intermec 851-094-001	AC Adapter & Snap-on USB Adaptor w/ cables	

	Intermec 1-974028-025 Intermec 850-567-001 Intermec VE011-2018	

2.3.6. Description HHR-B:

The Intermec CN70 RFID is an ultra-rugged mobile computer that combines passive UHF reading and mobile computing packaged in an optimal size, weight and rugged unit. The UHF pRFID reader is fully integrated with no visible external antenna. HHR-B is non-incendive (NI) certified. It also includes a barcode scanner, 2D imager and supports VoIP/Speech Recognition/Push to Talk applications. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on the CN70 refer to Appendix D.

2.3.7. Included HHR-B:

Included in SLINs BA-BF are 2 GB storage card, Flexdock, power adaptor and cables, trigger handle, two batteries (one operational and one spare). Flexdock and trigger handle are shown in Figure 2-8 and Figure 2-9.

2.3.8. SLINs HHR-C: (currently on "Reserve")

Note: As of February 2014, the Original Equipment Manufacturer (OEM) issued a notice of immediate retirement of all CN4 Series mobile computers models including: CN4A, E, G, H and N. As a result, the following SLINS will be placed in "Reserve" status. Additionally, the products listed are no longer offered and/or available for purchase on this contract due to it being end of life. The item description provided is for reference, warranty, and maintenance purposes only. Should a replacement product be approved by the Government it will placed on this contract and available for ordering.

Reserve Status SLINS:

- 0005CA through 0005CF
- 0005CG through 0005CP

Table 2-5: pRFID Handheld Readers (C) SLINs

SLIN 0005 CA	Intermec CN4G8H801D5E700 Intermec IP30G0U9004	3 year Warranty	Handheld Computer and pRFID Attachment For FCC Use
SLIN 0005 CB		4 year Warranty	
SLIN 0005 CC		5 year Warranty	
SLIN 0005 CD	Intermec CN4G8H801D5E700	3 year Warranty	Handheld Computer Only
SLIN 0005 CE		4 year Warranty	
SLIN 0005 CF		5 year Warranty	
SLIN 0005 CG	Intermec IP30G0U9004	3 year Warranty	pRFID Attachment For FCC Use
SLIN 0005 CH		4 year Warranty	
SLIN 0005 CJ		5 year Warranty	
SLIN 0005 CK	Intermec 318-016-102	Rechargeable Battery	
SLIN 0005 CL	Intermec 871-025-002 Intermec 851-082-203 Intermec 1-974028-025	Battery Charger/Communications Dock Power Adaptor AC Cord	
SLIN 0005 CM	Apriva BT200-T	CAC Reader with Software	
SLIN 0005 CN	Intermec 825-217-001	Carrying Device	
SLIN 0005 CP	Intermec 851-089-003 Intermec 1-974028-025 Intermec 850-567-001 Intermec VE011-2018	AC Adapter & Snap-on USB Adaptor w/ cables	

Figure 2-10: Intermec CN4 with IP30 pRFID Reader

2.3.9. Description HHR-C: (currently on "Reserve")

The Intermec CN4 mobile computer is a fully rugged device rated at IP64. It has enhanced document imaging and integrated GPS. It supports the Intermec IP30 snap-on UHF pRFID reader. HHR-C is non-incendive (NI) certified. It also includes a barcode scanner, 2D imager and supports VoIP/Speech Recognition applications. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on the CN4 and IP30 refer to Appendix F: SLIN 0005 pRFID Handheld Readers (CN4).

2.3.10. Included HHR-C: (currently on "Reserve")

Included in SLINs CA-CC are 2 GB storage card, Flexdock, power adaptor and cables, a trigger handle, two CN4 batteries (one operational and one spare) two IP30 batteries (one operational and one spare), IP30 charger/dock with adaptor and cables.

Included in SLINs CD-CF are 2 GB storage card, Flexdock, power adaptor and cables, trigger handle, two batteries (one operational and one spare).

Included in SLINs CG-CJ are two batteries (one operational and one spare), charger/dock with adaptor and cables.

Figure 2-11: Intermec Trigger Handle

Figure 2-12: Intermec Flexdock

Figure 2-13: Intermec IP30 Snap-on pRFID Reader

Figure 2-14: Intermec IP30 Spare Battery

Figure 2-15: Intermec IP30 Battery Charger

2.3.11. SLINs HHR-D: (currently on "Reserve")

Note: As of February 2014, the Original Equipment Manufacturer (OEM) issued a notice of immediate retirement of all CN4 Series mobile computers models including: CN4A, E, G, H and N. As a result, the following SLINS will be placed in "Reserve" status. Additionally, the products listed are no longer

offered and/or available for purchase on this contract due to it being end of life. The item description provided is for reference, warranty, and maintenance purposes only. Should a replacement product be approved by the Government it will placed on this contract and available for ordering.

Reserve Status SLINS:

- 0005DA through 0005DF
- 0005DG through 0005DP

Table 2-6: pRFID Handheld Readers (D) SLINs

SLIN 0005 DA	Intermec CN4G5H801D5E700 Intermec IP30G0U9004	3 year Warranty	Handheld Computer and pRFID Attachment For FCC Use
SLIN 0005 DB		4 year Warranty	
SLIN 0005 DC		5 year Warranty	
SLIN 0005 DD	Intermec CN4G5H801D5E700	3 year Warranty	Handheld Computer Only
SLIN 0005 DE		4 year Warranty	
SLIN 0005 DF		5 year Warranty	
SLIN 0005 DG	Intermec IP30G0U9004	3 year Warranty	pRFID Attachment For FCC Use
SLIN 0005 DH		4 year Warranty	
SLIN 0005 DJ		5 year Warranty	
SLIN 0005 DK	Intermec 318-016-102	Rechargeable Battery	
SLIN 0005 DL	Intermec 871-025-002 Intermec 851-082-203 Intermec 1-974028-025	Battery Charger/Communications Dock	
SLIN 0005 DM	Apriva BT200-T	CAC Reader with Software	
SLIN 0005 DN	Intermec 825-217-001	Carrying Device	
SLIN 0005 DP	Intermec 851-089-003 Intermec 1-974028-025 Intermec 850-567-001 Intermec VE011-2018	AC Adapter & Snap-on USB Adaptor w/ cables	

Figure 2-16: Intermec CN4 with IP30 pRFID Reader

2.3.12. Description HHR-D: (currently on "Reserve")

The Intermec CN4 mobile computer is a fully rugged device rated at IP64. It has enhanced document imaging and integrated GPS. It supports the Intermec IP30 snap-on UHF pRFID reader. HHR-D is non-incendive (NI) certified. It also includes a barcode scanner, 2D imager and supports VoIP/Speech Recognition applications. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on the CN4 and IP30 refer to Appendix F: SLIN 0005 pRFID Handheld Readers (CN4).

2.3.13. Included HHR-D: (currently on "Reserve")

Included in SLINs DA-DC are 2 GB storage card, Flexdock, power adaptor and cables, a trigger handle, two CN4 batteries (one operational and one spare), two IP30 batteries (one operational and one spare), IP30 charger/dock with adaptor and cables.

Included in SLINs DD-DF are 2 GB storage card, Flexdock, power adaptor and cables, trigger handle, two batteries (one operational and one spare).

Included in SLINs DG-DJ are two batteries (one operational and one spare), charger/dock with adaptor and cables.

2.4. pRFID Smart Table

2.4.1. Overview

The Smart Table is the hands free solution for inserting visibility into locations where material is processed or handled on a table top like surface. Examples of this are receipt, and equipment checkout or issue. Generally a fixed reader and antenna(s) are mounted underneath the table surface, and tuned to read tagged material that is on the surface of the table, but not read tagged material that is not on the surface of the table. The SLINs below include the table, fixed reader and all components necessary for operation. The device is a network device controlled by middleware installed on a local server. For more information about this, please see Section 4.1 of this UG.

2.4.2. SLINs

Table 2-7: pRFID Smart Table SLINs

SLIN 0007 AA	RFID Global Solution STHD3003-01X Motorola FX7500	3 year Warranty	For FCC Use
SLIN 0007 AB		4 year Warranty	
SLIN 0007 AC		5 year Warranty	
SLIN 0007 AD	RFID Global Solution STHD3003-01X Motorola FX7500	3 year Warranty	For ETSI Use
SLIN 0007 AE		4 year Warranty	
SLIN 0007 AF		5 year Warranty	

Figure 2-17: RFID Global Solution Smart Table

2.4.3. Description:

The RFID Global Solution STHD3003-01X is a rugged, portable workspace engineered to isolate the pRFID read field within the boundaries of the table. The unit is constructed of extruded aluminum and can withstand up to 1000 lbs. It is IP64 rated, has surface visible light indicators. The legs are adjustable allowing for multiple work heights. The Smart Table includes the Motorola FX7500 reader and all components required for full operation. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on the Smart Table refer to Appendix G: SLIN 0007 pRFID Smart Table.

2.5. pRFID Printer

2.5.1.Overview

The pRFID Printer is the solution for printing and encoding pRFID labels that are to be placed on material. Generally required for this solution are the printer itself, AC power cord, printer ribbon and label stock. Seagull Scientific's BarTender Professional software provides an extremely easy to use solution to design and print labels, barcodes, design RFID labels, and cards. BarTender Professional provides nearly every barcode type including linear, 2D, postal or GS1 DataBar. BarTender Professional supports frequently used linear and 2D barcodes such as UPC, Codabar, Code 39s, 93s, and 128s and Data Matrix as well as design of RFID tags and QR codes.For more information on label stock, see Section 2.6 of this UG. The printers are network devices, and can be configured wirelessly or hard-wired. They are controlled by middleware installed on a local server. For more information about this, please see Section 4.1 of this UG.

2.5.2.SLINs

Table 2-8: pRFID Printer SLINs

SLIN 0009 AA	Intermec PM43G01NA0140201, Seagull Scientific Bartender Pro	3 year Warranty	For FCC Use
SLIN 0009 AB		4 year Warranty	
SLIN 0009 AC		5 year Warranty	
SLIN 0009 AD	Intermec PM43G01EU0140201. Seagull Scientific Bartender Pro	3 year Warranty	For ETSI Use
SLIN 0009 AE		4 year Warranty	
SLIN 0009 AF		5 year Warranty	
SLIN 0009 AG	Intermec 1-110501-00	Operator's Maintenance Kit	
SLIN 0009 AH	Intermec 201-031-420	Replacement Print Head	
SLIN 0009 AJ	Intermec SP330	4" wide Resin-Based Printer Ribbon	

Figure 2-18: Intermec PM43 pRFID Printer

2.5.3.Description:

The Intermec PM43 pRFID Printer is an industrial printer ideal for a wide range of applications within the distribution center/warehouse environment. It has a large, color tamper proof touch screen, and supports all major 1D and 2D barcode symbologies. The printer has a resolution of 203 dpi, and a variable print speed from 100-300 mm/sec and supports label sizes up to 4.5 inches in width. The vendor specification for this device has been included in an Appendix. Please note that some vendor specification documentation may include options not available under the pRFID II contract. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on the PM43 refer to Appendix H: SLIN 0009 pRFID Printer.

2.5.4.Included:

Included with the Intermec PM43 pRFID Printer is one (1) Seagull Scientific Bartender Pro Label software, one (1) full length thermal transfer ribbon, and one (1) Operators Maintenance Kit.

2.6. pRFID TAGS

2.6.1.Overview

pRFID tags are the consumable item placed on material that is to be tracked. They come in many form factors based upon the application and the material being tagged. Disposable adhesive shipping labels generally come in rolls designed for a printer. For more information about printers, see the Printer section of this UG. Metal or liquid objects require a more substantial tag that has been tuned to operate in close proximity to those materials. These tags are generally thicker, made of plastic, and come in smaller quantities. They can typically be mounted to objects using mounting holes rather than adhesive, and require hardware to do so.

2.6.2.SLINs

Table 2-9: pRFID Tag SLINs

SLIN 0015 AA	Lowry 305-00205	Shipping Tag - 4" X 2"
SLIN 0015 AB	Lowry 305-00206	Shipping Tag - 4" X 6"
SLIN 0015 AC	Omni ID Max Rigid Dual Band	Hardened Standoff Tag
SLIN 0015 AD	Intelleflex SMT-8100	Battery Assisted Passive Tag
SLIN 0015 AE	Lowry 305-00207	Document Labeling/Tracking Tag
SLIN 0015 AF	Omni ID Prox NG	Office/Asset Tag
SLIN 0015 AG	Omni ID Flex	Medium Range Office/Asset Tag

2.6.3.Description 0015 AA:

Lowry 305-00205 is a thermal transfer, white synthetic label with a high strength, permanent adhesive. It is a 4” x 2” general purpose label. The pRFID inlay included is the Alien Higgs3 Squiggle which is tuned for global use. Inlays are ordered by roll, with a quantity of 2000/roll. The vendor specification for this device has been included in an Appendix. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on this label refer to Appendix I: SLIN 0015 pRFID Tag (Lowry 305-00205).

2.6.4.Description 0015 AB:

Lowry 305-00206 is a thermal transfer, white synthetic label with a high strength, permanent adhesive. It is a 4” x 6” general purpose label. The pRFID inlay included is the Alien Higgs3 Squiggle which is tuned for global use. Inlays are ordered by roll, with a quantity of 500/roll. The vendor specification for this device has been included in an Appendix. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on this label refer to Appendix J: SLIN 0015 pRFID Tag (Lowry 305-00206).

2.6.5.Description 0015 AC:

The Omni-ID Max Rigid Dual Band is a long range durable pRFID tag optimized for attachment to metal assets and is tuned for global use. It measures 4” x 1.3” x .40” and weighs 31.7 grams. The imbedded integrated circuit is the Alien Higgs3. The vendor specification for this device has been included in an Appendix. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For More technical information on this tag refer to Appendix K: SLIN 0015 pRFID Tag (Omni ID Max .

Figure 2-19: Omni-ID Max Rigid Dual Band

2.6.6.Description 0015 AD:

RESERVED FOR ORDERING *– This product is being replaced as it has reached End-of-Life. This CLIN cannot be ordered until a replacement product is available.*

The Intelleflex SMT-8100 is a super long range, rugged compact tag specifically designed to provide long range operation around liquids and metals. It can store manifest, maintenance records, custody chain, history, and user information locally on the tag. The battery life is up to 4 years with duty cycling. It measures 75mm x 75mm x 15.8mm and weighs 47 grams. The vendor specification for this device has been included in an Appendix. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on this tag refer to Appendix L: SLIN 0015 pRFID Tag (Intelleflex SMT-8100).

Figure 2-20: Intelleflex SMT-8100

2.6.7.Description 0015 AE:

Lowry 305-00207 is a direct thermal, smooth white paper label with a non-tackified, all temperature acrylic adhesive. It is a 4” x 1” general purpose label. The pRFID inlay included is the Alien Higgs3 Squiggle which is tuned for global use. Inlays are ordered by roll, with a quantity of 2000/roll. The vendor specification for this device has been included in an Appendix. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on this label refer to Appendix M: SLIN 0015 pRFID Tag (Lowry 305-00207).

2.6.8.Description 0015 AF:

The Omni-ID Prox-NG is a small form factor, global, pRFID tag designed specifically for enterprise IT asset management environments. It measures 1.48” x .49” x .18” and weighs 2.2 grams. The imbedded integrated circuit is the Alien Higgs3. The vendor specification for this device has been included in an Appendix. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II contract. For more technical information on this tag refer to Appendix N: SLIN 0015 pRFID Tag (Omni-ID Prox-NG).

Figure 2-21: Omni-ID Prox-NG

2.6.1.Description 0015 AG:

The Omni-ID Flex is a small form factor, global, pRFID tag designed specifically for enterprise IT asset management environments. It measures 3” x 0.6” x 0.11” and weighs 2.9 grams. The imbedded integrated circuit is the Alien Higgs3. The vendor specification for this device has been included in an Appendix. Please review Section 10: pRFID II CLIN Pricing for the SLIN specification included under the pRFID II

contract. For more technical information on this tag refer to Appendix O: SLIN 0015 pRFID Tag (Omni-ID Flex).

Figure 2-22: Omni-ID Flex

3. HARDWARE CABLES

Required cables are listed in the individual Hardware sections above. Cables that can be ordered individually are listed in the table below.

Table 3-1: pRFID Hardware Cable SLINs

SLIN	Cable Purpose	Cable Interface	Manufacturer	Part Number	QTY
0001 AA-AG	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-061-408	1
0001 AA-AG	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0001 AA-AG	13' Antenna Cable	RP-TNC Male to N Male	Intermec	236-230-001	2
0003 AA-AF	Antenna Cable	Rp-Sma-P To Rp-N-P	Intermec	236-021-002	2
0003 AA-AF	Communication Cable	RS-232 9 Pin to Pigtail	Intermec	075512	1
0003 AA-AF	Serial Modem Cable	DB9M to DB9F	Intermec	321-497-101	1
0005 AA-AF	USB Interface Cable	USB A to USB B	Intermec	321-576-004	1
0005 AL	Adaptor for USB Peripherals	USB A Female to RS-232	Intermec	VE011-2016	1
0005 AL	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-094-001	1
0005 AL	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 BA-BF	USB Interface Cable	USB A to USB B	Intermec	321-576-004	1
0005 BL	Adaptor for USB Peripherals	USB A Female to RS-232	Intermec	VE011-2016	1
0005 BL	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-094-001	1
0005 BL	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 CA-CC	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-082-203	2
0005 CA-CC	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	2
0005 CA-CC	USB Interface Cable	USB A to USB B	Intermec	321-576-004	1
0005 CD-CF	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-082-203	1
0005 CD-CF	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 CD-CF	USB Interface Cable	USB A to USB B	Intermec	321-576-004	1
0005 CG-CJ	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 CG-CJ	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-082-203	1
0005 CL	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-082-203	1
0005 CL	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 CP	Adaptor for USB Peripherals	USB A Female to RS-232	Intermec	VE011-2016	1
0005 CP	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-089-003	1
0005 CP	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 DA-DC	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-082-203	2
0005 DA-DC	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	2
0005 DA-DC	USB Interface Cable	USB A to USB B	Intermec	321-576-004	1
0005 DD-DF	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-082-203	1
0005 DD-DF	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 DD-DF	USB Interface Cable	USB A to USB B	Intermec	321-576-004	1
0005 DG-DJ	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-082-203	1
0005 DG-DJ	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1
0005 DP	Adaptor for USB Peripherals	USB A Female to RS-232	Intermec	VE011-2016	1
0005 DP	AC Adaptor	IEC 60320-1 C14 Inlet	Intermec	851-089-003	1
0005 DP	AC Power Cord	IEC 60320-1 C13 Connector	Intermec	1-974028-025	1

4. SOFTWARE

4.1. pRIFD – SOFTWARE

GlobeRanger iMotion is the software solution for managing devices, as well as collecting data and applying business rules to the solution. An asset record of software versions and configurations being installed will be kept. For details on this refer to *pRFID Management Plan Annex: Configuration Management Plan (CMP) August 12, 2013*. Minimum server requirements are listed in Appendix O: SLIN 0017 pRFID Software.

4.1.1.SLINs

Table 4-1: pRFID Software SLINs

SLIN 0017 AA	GlobeRanger iMotion Software per Device GlobeRanger PFIM-ES-DVC-DL	Application Development Software (includes Middleware)
SLIN 0017 AB	GlobeRanger Federal Solutions Accelerator per Server GlobeRanger SA-FDRL-SVRPL GlobeRanger SA-FDRL-SVR-MT3	Special Software Development tool kits/utility Libraries
SLIN 0017 AC	GlobeRanger iMotion Perpetual per Device License GlobeRanger PF-IM-ES-DVC-PL GlobeRanger PF-IM-DVC-MT3	Development Software and Utilities Runtime License (includes Middleware)
SLIN 0017 AD	Asset Tracking single Server Software	GlobeRanger GR-AWARE Asset Tracking Software, single SERVER License, v2.7, CA-AW-GP-SVR-PL with **3** years Technical Support and Software Corrective Content and Software Maintenance (includes iMotion Platform v5.5 Server License
SLIN 0017 AE	Asset Tracking per Device Software (required for each device attached to Server Software)	GlobeRanger GR-AWARE Asset Tracking Software, per DEVICE License, (required for each device attached to the SERVER software) v2.7, CA-AW-GP-DVC-PL with **3** years Technical Support, Software Corrective Content and Software Maintenance. Includes iMotion Platform v5.5 DEVICE License
SLIN 0017 AF	Asset Tracking single Server Software	GlobeRanger GR-AWARE Asset Tracking Software, single SERVER License, v2.7, CA-AW-GP-SVR-PL with **4** years Technical Support and Software Corrective Content and Software Maintenance (includes iMotion Platform v5.5 Server License
SLIN 0017 AG	Asset Tracking per Device Software (required for each device attached to Server Software)	GlobeRanger GR-AWARE Asset Tracking Software, per DEVICE License, (required for each device attached to the SERVER software) v2.7, CA-AW-GP-DVC-PL with **4** years Technical Support, Software Corrective Content and Software Maintenance. Includes iMotion Platform v5.5 DEVICE License
SLIN 0017 AH	Asset Tracking single Server Software	GlobeRanger GR-AWARE Asset Tracking Software, single SERVER License, v2.7, CA-AW-GP-SVR-PL with **5** years Technical Support and Software Corrective Content and Software Maintenance (includes iMotion Platform v5.5
SLIN 0017 AI	Asset Tracking per Device Software (required for	GlobeRanger GR-AWARE Asset Tracking

	each device attached to Server Software)	Software, per DEVICE License, (required for each device attached to the SERVER software) v2.7, CA-AW-GP-DVC-PL with **5** years Technical Support, Software Corrective Content and Software Maintenance. Includes iMotion Platform v5.5 DEVICE License
SLIN 0017 AJ	SMARTRACK RFID	SMARTRACK Arms Room RFID (SW Only) per **PC lifetime** license/updates/maintenance and Warranty coverage for the purchased version of the software
SLIN 0017 AK	SMARTRACK RFID SS	SMARTRACK Server (SW only) per **server lifetime** license/updates/maintenance and Warranty coverage for the purchased version of the software

4.1.2.Description:

GlobeRanger iMotion serves as the foundation for edge solutions, providing a platform runtime for managing devices and Edge processes, a software development kit (SDK) for easy extensibility, pre-build process components for rapid implementation, and comprehensive tools for rapid solution development, production deployment and on-going operation. Based on Microsoft's .NET Framework, iMotion enables business consultants, application developers, and systems engineers to easily create, configure and manage edge data and automation solutions.

The Federal Solution Accelerator, built on the iMotion Edgeware platform, consists of nine (9) key functional modules that can dramatically speed your DFARS RFID compliance implementation. Each of these modules can be used independently or can be combined for even greater benefit.

- Generic Site Configuration
- Reporting Framework
- Management Reporting
- Track & Trace
- N-Level Hierarchy
- Verification
- Wide Area Workflow
- EDI Document Format Integration
- Control Number Management

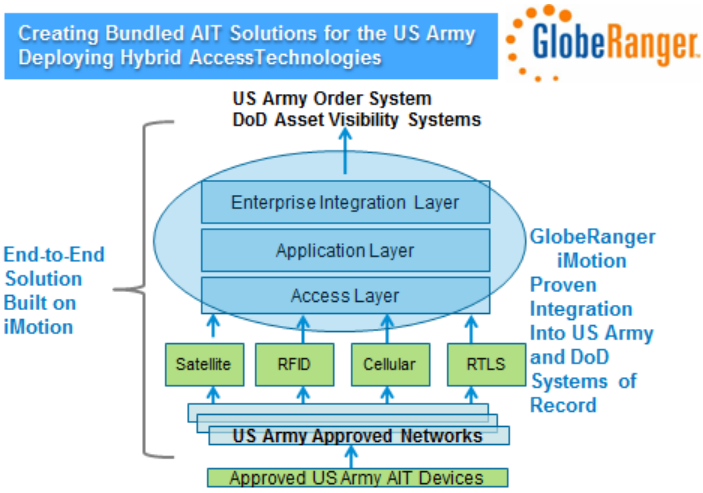

Figure 4-1: GlobeRanger iMotion Platform

4.1.3.Application Development Software (SLIN 0017AA)

The iMotion Edgeware Platform Architecture includes device management, data aggregation, edge process management, and enterprise messaging. The functional layers are responsible for reliably collecting and transforming RFID tag read events into actionable business information. The high-level application components of the iMotion Edgeware Platform architecture include the Edge Device Manager (EDM), Edge Process Manager (EPM), Edge Management Console & Monitoring Dashboard (EMC), Visual Device Emulator (VDE), and Event Workflow Editor (EWE). The application components used in concert are responsible for maintaining and managing the edge. Additionally, the Visual Device Emulator and Event Workflow Editor are GUI tools to aid in edge development and deployment.

4.1.4.Special Software Development tool kits/utility Libraries (SLIN 0017AB)

The Federal Solution Accelerator software module can help accelerate deployments and integration for AMIS supported customers. This module contains all the processing and logic needed to interact with current DoD systems and EDI transaction formats. It isolates the systems integration function into DoD specific requirements in one module of software. Therefore, this software is extensible to allow for quick introduction of new requirements with minimal change and configuration management needed within the software architecture. The software is based upon Microsoft Visual Studio and .Net technology. This foundation allows for agile methodology minimizing the cost of new software development, testing, and integration rework. This solution accelerator is a collection of technology subsystems that include out-of-the-box application functionality and Edge Device settings and Edge Process workflows.

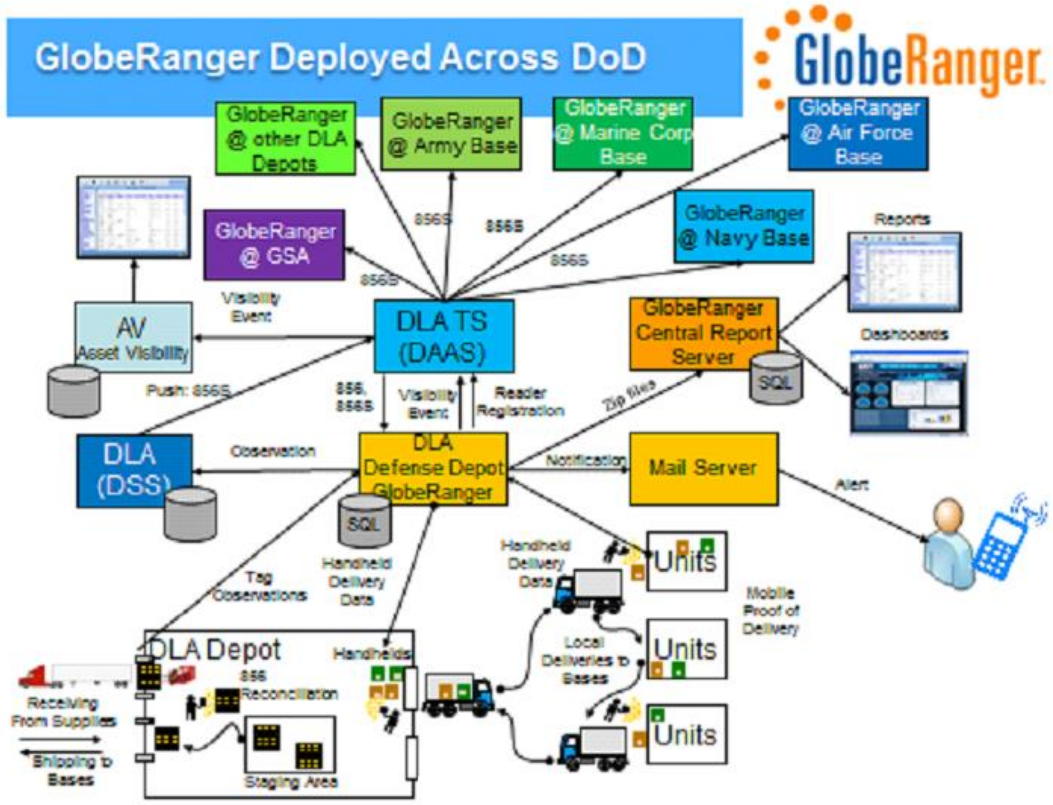

Figure 4-2: Federal Solutions Accelerator

4.1.5. Development Software and *Utilities* Runtime License (SLIN 0017 AC)

The Development Software and Utilities Runtime License allows any program developed with the application software to be installed and used without the need to purchase a separate license.

4.1.6. The GlobeRanger Asset Watching and Reporting Engine (GR-AWARE) (SLINs 0017 AD-AI)

GR-AWARE is the RFID-based asset management solution that provides a view of assets by location and other attributes, and the ability to easily incorporate that information into business operations and legacy systems, actionable visibility. It supports a broad range of RFID and sensor technologies and mobile and stationary RFID infrastructure to track assets. GR AWARE manages supports, triggers alerts and notifications and generates a variety of real time reports. It is an application that is built on top of GlobeRanger's iMotion Edgeware Platform, which is an RFID platform for controlling edge devices, managing device networks, transforming data, and optimizing business processes. User Benefits include:

- Visibility across logistics operations to maintain optimal asset stock.
- Reduced cost of assets by improving control, availability and maintenance costs.
- Accurate asset maintenance data and warranty claim management.
- Reduced time and resources spent searching for assets.

4.1.7 Description SLIN 0017 AJ and AK SMARTRAC RFID Software

Smartrack RFID SMARTRACK – Digital Arms Room is a fully automated Armory Management system that integrates hardware, software, and a database-management system specifically to manage and track arsenal equipment in armories within the U.S. Military and Law Enforcement agencies. The fully integrated Digital Arms Room System is specifically designed to comply with Arms Room Operations and DOD FIPS 140-2 Security Specifications. The system is fully functional in a stand-alone environment in either a field or base deployment. The Digital Arms Room is capable of tracking and managing an unlimited variety of weapons and weapons related equipment, including real time information on individual weapon life cycles and maintenance states, and the duty assignments, team composition, training, and qualification of the soldiers to whom the weapons are assigned.

Smartrack RFID SS Server System SMARTRACK – Digital Arms Room is a fully automated Armory Management system that integrates hardware, software, and a database-management system specifically to manage and track arsenal equipment in armories within the U.S. Military and Law Enforcement agencies. The fully integrated Digital Arms Room System is specifically designed to comply with Arms Room Operations and DOD FIPS 140-2 Security Specifications. The Digital Arms Room is capable of tracking and managing an unlimited variety of weapons and weapons related equipment, including real time information on individual weapon life cycles and maintenance states, and the duty assignments, team composition, training, and qualification of the soldiers to whom the weapons are assigned. SMARTRACK Software works with SQL Server 2008, 2012 or 2014 and Windows Server 2008 or 2012. The Microsoft software can be included as an option along with the SmarTrack server software

NOTE 1: Please note that the SMARTRACK SW (WSA Corp) provides a lifetime warranty and maintenance for that version of the software that is purchased, that is why the price is the same for all the maintenance years.

NOTE 2: Please note SMARTRACK RFID is available on GSA but the price includes the software as well as a “kit” of hardware; it is meant to be a stand-alone system. SRA is proposing the software only, without any equipment.

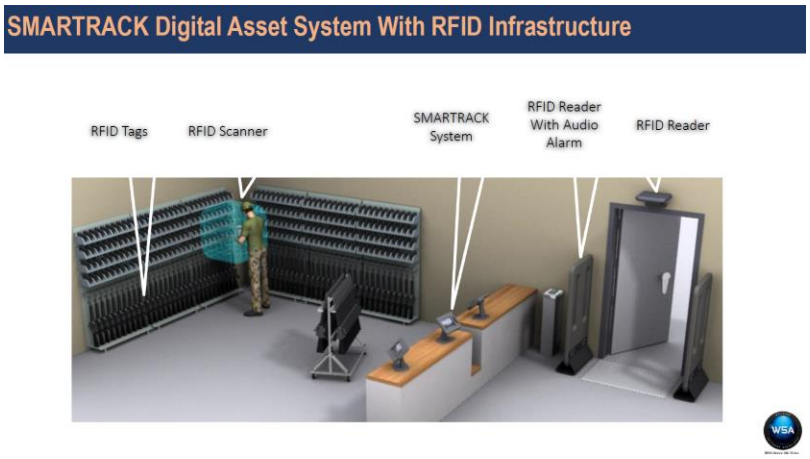

Figure 4-3: Smartrack RFID

5. RECOMMENDED EQUIPMENT CONFIGURATIONS

As common configurations are ordered, this section of the user and pricing guide will be augmented with orderable items which comprise common solutions.

5.1. DOCK DOOR CONFIGURATION

Implementation of parallel dock door solutions, depicted in Figure 5-1, require services including equipment and software. A recommended configuration for Dock Door Installation employs the following steps 1) Design, 2) Procure, and 3) Deploy:

Step 1. SLIN 0023 AA/AK/AH/AQ – Technical Engineering Services: Project Manager, RF Technical Radio Specialist, Senior Systems Engineer, Technical Writer

1.1 Perform a site survey

1.2 Design Solution

1.3 Complete Solution Design Document

Step 2. SLIN 0001 AA-AG pRFID Fixed Reader (Geographically dependent), SLIN 0017 AA-AC Software

2.1 Order the appropriate quantity of fixed readers (determined in site survey)

2.2 Order the appropriate quantity of accessories and mounting structure (determined in site survey)

2.3 Order the appropriate software and license quantity

Step 3. SLIN 0023 AA/AJ/AP – Technical Engineering Services: Project Manager, Senior Field Engineer, Data Comm / Network Specialist, Senior Software Systems Engineer

3.1 Conduct hardware installation to include physical mounting of equipment, LAN and electric

3.2 Conduct software installation to include server and device configuration and testing

3.3 Tune equipment

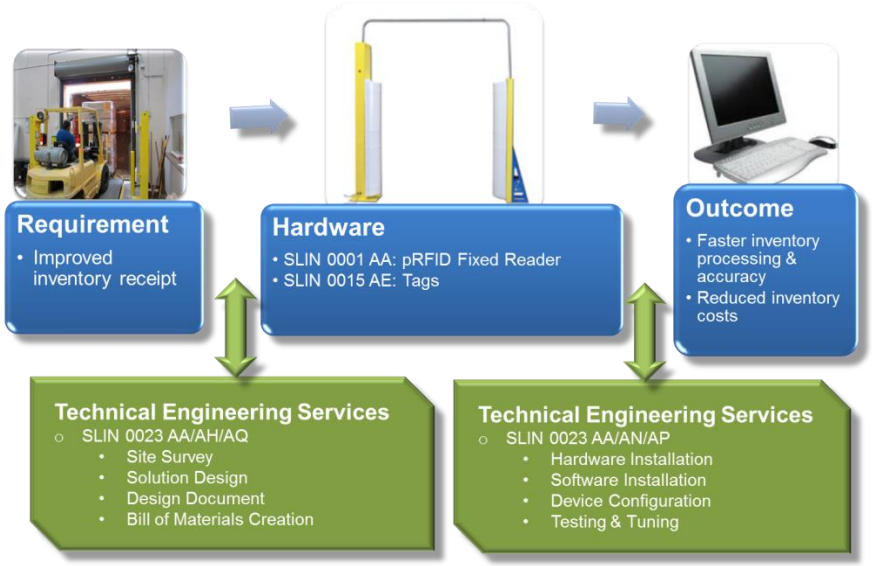

Figure 5-1: Implementation of Dock Door solution

Note: All dock door solutions are different. The above assumes an existing pRFID installation is in place, and the AMIS pRFID II vehicle is being used to add additional coverage of dock doors.

5.2. SMART TABLE CONFIGURATION

Implementation of Smart Table solutions, depicted in Figure 5-2, requires services including equipment and software. A recommended configuration for a Smart Table Installation employs the following steps 1) Design, 2) Procure, and 3) Deploy:

Step 1. SLIN 0023 AA/AH/AQ – Technical Engineering Services: Project Manager, Senior Systems Engineer, Technical Writer

1.1 Perform a site survey

1.2 Design Solution

1.3 Complete Solution Design Document

Step 2. SLIN 0007 AA-AF pRFID Smart Table (Geographically dependent), SLIN 0009 AA-AD pRFID Printer (Geographically dependent), SLIN 0015 AE Document Labeling Tags, SLIN 0017 AA-AC Software

2.1 Order the appropriate quantity of equipment (Smart Tables, Printers, Tags)

2.3 Order the appropriate software and license quantity

Step 3. SLIN 0023 AA/AN/AP – Technical Engineering Services: Project Manager, Senior Field Engineer, Senior Software Systems Engineer

3.1 Conduct hardware installation to include physical mounting of equipment, LAN and electric

3.2 Conduct software installation to include server and device configuration and testing

Tune equipment

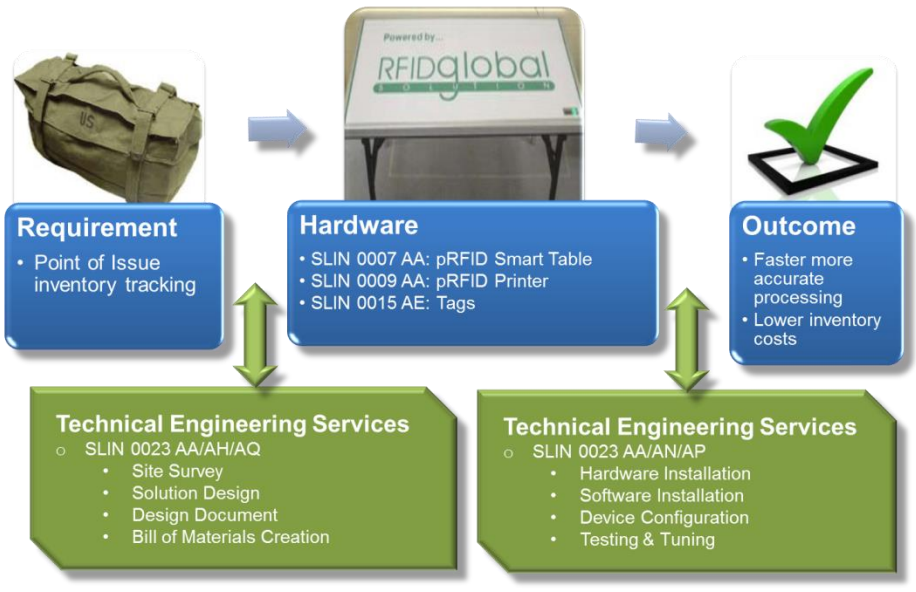

Figure 5-2: Implementation of Smart Table solution

5.3. HAND HELD CONFIGURATION

Implementation of Handheld solution, depicted in Figure 5-3, requires services including equipment and software. A recommended configuration for a Hand Held Terminal installation employs the following steps 1) Design, 2) Procure, and 3) Deploy:

Step 1. SLIN 0023 AA/AH/AQ – Technical Engineering Services: Project Manager, Senior Systems Engineer, Technical Writer

1.1 Perform a site survey

1.2 Design Solution

1.3 Complete Solution Design Document

Step 2. SLIN 0005 AA-AF pRFID Handheld (Geographically dependent), SLIN 0005 AG Spare Battery, SLIN 0005 AH Docking Station/Battery Charger, SLIN 0005 AK Holster, SLIN 0005 AA-AC Software

2.1 Order the appropriate quantity of equipment

2.3 Order the appropriate software and license quantity

Step 3. SLIN 0023 AA/AN/AP – Technical Engineering Services: Project Manager, Senior Field Engineer, Senior Software Systems Engineer

3.1 Conduct software installation to include server and device configuration and testing

3.2 Tune equipment

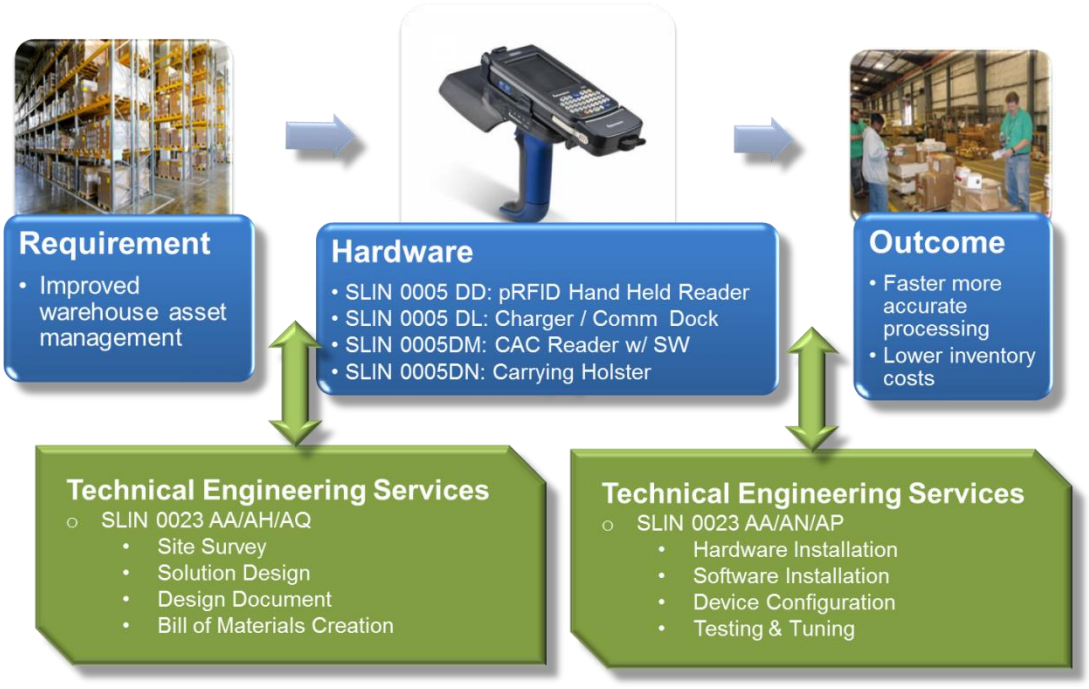

Figure 5-3: Implementation of Handheld solution

5.4. PERSONNEL DOOR CONFIGURATION

Implementation of an entry door or interior personnel door solution, depicted in Figure 5-4, requires services including equipment and software. A recommended configuration for entry or interior personnel door installation employs the following steps 1) Design, 2) Procure, and 3) Deploy:

Step 1. SLIN 0023 AA/AK/AH/AQ – Technical Engineering Services: Project Manager, RF Technical Radio Specialist, Senior Systems Engineer, Technical Writer

1.1 Perform a site survey

1.2 Design Solution

1.3 Complete Solution Design Document

Step 2. SLIN 0001 AA-AG pRFID Fixed Reader (Geographically dependent), SLIN 0017 AA-AC Software

2.1 Order the appropriate quantity of fixed readers (determined in site survey)

2.2 Order the appropriate quantity of accessories and mounting structure (determined in site survey)

2.3 Order the appropriate software and license quantity

Step 3. SLIN 0023 AA/AJ/AP – Technical Engineering Services: Project Manager, Senior Field Engineer, Data Comm / Network Specialist, Senior Software Systems Engineer

3.1 Conduct hardware installation to include physical mounting of equipment, LAN and electric

3.2 Conduct software installation to include server and device configuration and testing

3.3 Tune equipment

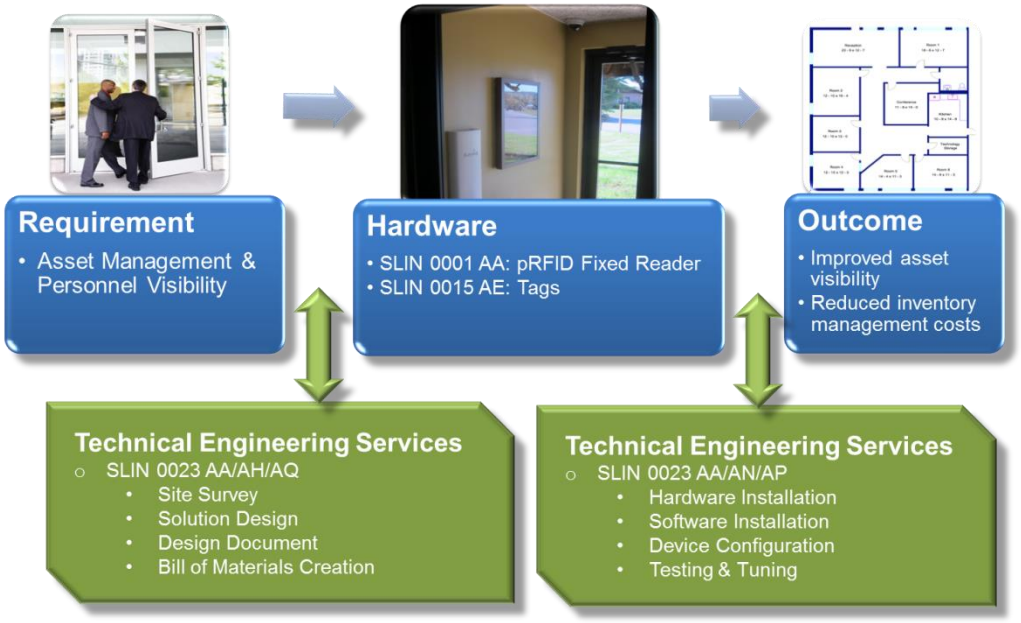

Figure 5-4: Implementation of Personnel Door solution

6. TECHNICAL ENGINEERING SERVICES

6.1. TECHNICAL ENGINEERING SERVICES

6.1.1. Overview

Technical Engineering Services (TES) are the solution to achieving success using pRFID Hardware and Software. Expertise in the areas of consulting, site survey, solution design, installation, tuning, testing programming, troubleshooting, documenting and analyzing is available.

6.1.2. Team Mates

Users of this IDIQ can leverage the breadth of capabilities offered by industry thought-leaders. Each member of the SRA Team boasts a wealth of pRFID experience with extensive resources specialized in government and commercial implementations and use-case specific demonstrated successes. We focus on ensuring AMIS and its customers receive reliable, flexible solutions by selecting team mates in key areas important to successful execution of varying task orders.

The table below summarizes the roles each team member plays and highlights the qualifications that make each member an excellent choice for that role.

Table 6-1: AMIS pRFID II Team Mates

Team Mate	Role
Lowry Computer Products	Lowry provides select ***equipment, helpdesk / warranty / repair service, and technical engineering services*** as well as bar code, RFID, Auto ID, Labeling, Wireless & Mobile data collection solutions.
Evanhoe and Associates	Evanhoe and Associates provide select ***technical engineering services.*** As nationally recognized experts in DoD RFID and Unique Identification (UID) applications, as well as data integration and transformation, Evanhoe develops integrated data and Automated Identification Data Capture (AIDC) IT solutions.
ByLight Professional IT Services	ByLight provides select ***technical engineering services*** for infrastructure installation. ByLight currently provides a full range of hardware and software engineering services to defense, civilian, and commercial customers worldwide.
Integrated ID Solutions	Integrated ID Solutions provide select ***technical engineering services***. Integrated ID Solutions provides subject matter expertise in Automatic Identification Technology (AIT), Project Management, and Systems Integration throughout the systems development life cycle by incorporating new business processes, new technology, and new capabilities in accord with existing processes.
Shipcom Wireless	Shipcom Wireless provides specialized ***technical engineering services*** in areas of Healthcare and Energy Management. Shipcom provides identification and tracking solutions that include advanced and hybrid Auto-ID technologies.
TotalTrax, Inc.	TotalTrax provides specialized ***technical engineering services*** in areas of Vehicle Mount and Forklift solutions. TotalTrax, Inc. is the leading provider of real-time vehicle, driver, and inventory tracking technologies for manufacturing and warehouse operations.
Xterprise	Xterprise provides specialized ***technical engineering services*** in areas of apparel and item-level pRFID solutions. With delivery and support of industry-leading pRFID initiatives such as Macy's, American Apparel and other retail applications, Xterprise provides exceptional implementation, consultation and support services.
FileTrail	FileTrail provides specialized ***technical engineering services*** in areas of file tracking solutions. FileTrail delivers physical records management solutions.
Michigan State University	Michigan State provides unbiased ***technical engineering services*** in advisory and research areas. For more than 50 years, Michigan State University has been a leader in teaching, research and outreach focused on packaging containers, materials, their functionality, and improvement with specific expertise using barcode and RFID technology.
Wright State University	Wright State provides unbiased ***technical engineering services*** in advisory and research areas. The RFID Center is an interdisciplinary collaborative research and development initiative established at the Raj Soin College of Business.

This comprehensive team allows AMIS and its customers the ability to design, consult, install, integrate, support, research, test, validate, and innovate pRFID technology and solutions with confidence; we have

assembled a world-class team with which we partner to deliver solutions for federal customers in an efficient, effective and repeatable manner.

6.1.3. Labor and Cost Reimbursable SLINs

TES labor categories are encompassed in SLIN 0023, while incidental materials are SLIN 0021 and travel costs associated with a task order are SLIN 0027. The following table shows these SLINs to include the labor categories.

Table 6-2: pRFID Labor and Cost Reimbursable SLINs

SLIN 0021 AA	Incidental Materials	Cost Reimbursable
SLIN 0023 AA	Project Manager	Labor Category
SLIN 0023 AB	Senior Information Systems Engineer	Labor Category
SLIN 0023 AC	Senior Programmer	Labor Category
SLIN 0023 AD	Systems Analyst	Labor Category
SLIN 0023 AE	Software Systems Designer	Labor Category
SLIN 0023 AF	Programmer/Analyst	Labor Category
SLIN 0023 AG	Junior Programmer	Labor Category
SLIN 0023 AH	Systems Engineer	Labor Category
SLIN 0023 AJ	Data Comm/Network Specialist	Labor Category
SLIN 0023 AK	RF Technical Radio Specialist	Labor Category
SLIN 0023 AM	Senior Systems Engineer	Labor Category
SLIN 0023 AN	Senior Software Systems Engineer	Labor Category
SLIN 0023 AP	Senior Field Engineer	Labor Category
SLIN 0023 AQ	Technical Writer	Labor Category
SLIN 0027 AA	Travel	Cost Reimbursable

6.1.4. Labor Category Descriptions

Project Manager: The Contractor's pRFID Project Manager shall serve as primary manager of large projects and shall be responsible for management, performance, and completion of major projects, as defined by the individual Task Order. The Project Manager shall be responsible for formulating and enforcing work standards, assigning schedules, and reviewing work performed for Task Orders.

Senior Information Systems Engineer: Applies business process improvement practices to reengineer methodologies/principles and business process modernization projects. Applies, as appropriate, activity and data modeling, transaction flow analysis, internal control and risk analysis and modern business methods and performance measurement techniques. Assist in establishing standards for information systems procedures. Develops and applies organization-wide information models for use in designing and building integrated, shared software and database management systems. Constructs sound, logical business improvement opportunities consistent with corporate Information Management guiding principles, cost savings, and open system architecture objectives. Provides daily supervision and direction to staff.

Senior Programmer: Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flow charts. Translates detailed design into computer software. Tests, debugs and refines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides technical direction to programmers to ensure program deadlines are met.

Systems Analyst: Analyzes and develops computer software possessing a wide range of capabilities, including numerous engineering, business and records management functions. Develops plans for automated information systems from project inception to conclusion. Analyzes user interfaces, maintain hardware and software performance tuning, analyze workload and computer usage, maintain interfaces with outside systems, analyze downtimes, analyze proposed system modifications, upgrades and new COTS. Analyzes the problem and the information to be processed. Defines the problem, and develops system requirements and program specifications, from which programmers prepare detailed flow charts, programs, and tests. Coordinates closely with programmers to ensure proper implementation of program and system specifications. Develops, in conjunction with functional users, system alternative solutions.

Software Systems Designer: Works from specifications to develop or modify operating systems applications. Designer assists with design, coding, benchmark testing, debugging and documentation of programs. Designer works with applications generally dealing with utility programs, job control language, macros, subroutines and other control modules. Works on most phases of software systems programming applications, and may require instruction and guidance in other phases.

Programmer / Analyst: Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flow charts. Translates detailed design into computer software. Tests, debugs and refines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides technical direction to programmers to ensure program deadlines are met.

Junior Programmer: Participates in the design of software tools and subsystems to support reuse and domain analysis. Assists Applications Engineer and Applications Programmer to interpret software requirements and design specifications to code, integrate and test software components.

Systems Engineer: Analyzes and studies complex system requirements. Designs software tools and subsystems to support software reuse and domain analyses and manages their implementation. Manages software development and support using formal specifications, data flow diagrams, other accepted design techniques and Computer-Aided Software Engineering (CASE) tools. Estimates software development costs and schedule. Reviews existing programs and assists in making refinements, reducing operating time and improving current techniques. Supervises software configuration management.

Data Comm / Network Specialist: Analyzes network characteristics (e.g., traffic, connect time, transmission speeds, packet sizes and throughput) and recommends procurement, removals and modifications to network components. Designs and optimizes network topologies and site configurations. Plans installations, transitions and cutovers of network components and capabilities. Coordinates requirements with users and suppliers.

RF Technical Radio Specialist: Focuses on the design and implementation of pRFID system. The individual will organize and configure the installation of pRFID site. This includes the proper RF installation of pRFID readers, antennas, and printers. Identifies the proper location for the readers at the prescribed distances along the supply chain; on conveyors, at loading dock portals, near palletizers, and mounted on vehicles. Also properly deploy hand-held readers for use in warehouses, distribution centers, and field environments. Be able to identify the physical and RF environments, as well as throughput, speed and accuracy requirements. Required to be able to analyze the RF environment to identify any RF interference and take proper measures to avoid RF interference.

Senior Systems Engineer: Applies an enterprise-wide set of disciplines for the planning, analysis, design and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise. Develops analytical and computational techniques and methodology for problem solutions. Performs enterprise wide strategic systems planning, business information planning, business and analysis. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools such as Integrated Computer-Aided Software Engineering (I-CASE) tools. Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning

documents. Has experience with such methodologies as IDEF 0 process modeling and IDEF 1x data modeling. Provides technical guidance in software engineering techniques and automated support tools.

Senior Software Systems Engineer: Formulates and defines specifications for operating system applications or modifies and maintains existing applications using engineering releases and utilities from the manufacturer. Responsible for program design, coding, testing, debugging and documentation. Responsible for applications dealing with the overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting and advanced mathematical/scientific software packages. Instructs, directs, and checks the work of other task personnel. Responsible for quality assurance review and the evaluation of existing and new software products.

Senior Field Engineer: Organizes and directs network installations on site surveys. Assesses and documents current site network configuration and user requirements. Designs and optimizes network topologies. Directs and leads preparation of engineering plans and site installation Technical Design Packages. Develops installation schedules. Mobilizes network installation team. Directs and leads preparation of drawings documenting configuration changes at each site. Prepares site installation and test reports. Coordinates post installation operations and maintenance support.

Technical Writer: Assists in collecting and organizing information required for preparation of user's manuals, training materials, installation guides, proposals, and reports. Edits functional descriptions, system specifications, user’s manuals, special reports, or any other customer deliverables and documents.

7. TRAINING

7.1. AVAILABLE TRAINING

We can create training programs on media best suited to delivering the type of training (classroom, web-based, CD-ROM, and documentation / manuals). We recommend instructional materials to specific audiences:

- Administrator Training is targeted at improving system uptime and ensuring pRFID solutions are sustainable; several levels may be required from helpdesk personnel needing to effectively triage support calls, to more advanced IT support personnel who may be required to troubleshoot on-site incidents.
- User / Operator Training helps facilitate change management for use of pRFID systems and ensures operators understand the intent, purpose and value from process changes and technology insertion. This training generally includes an overview of pRFID technology, standard operating procedures using pRFID solutions and integrated change management, basic operational indicators and support procedures.
- Manager / Analyst Training is targeted at improved decision support and ensuring that organizations realize the benefits of pRFID solutions effectively. This training generally includes how to use pRFID information, supply chain effects of deployed pRFID solutions to upstream and downstream processes, as well as example business case frameworks and expected results from turnkey applications.

Our methodology for developing training programs applies the Instructional Systems Development (ISD) framework for the analysis, design, and development of an effective training curriculum, and incorporates a methodical approach for instructional evaluation, delivery, and continuous improvement. Our subject matter experts can facilitate training programs in the following areas:

- pRFID configuration and operations
- Hardware characteristics, principles of operation and protocols, and maintenance
- pRFID software components and data structure
- Data structures, queues, and internal tables of the Operating System (OS)
- Software design and integration
- Diagnostics to include problem definition and resolution
- Use case designs and configuration
- Tag performance, testing, and tag application
- Use of software interfaces, reports, and data analysis.
- In addition, our Team has developed relevant IT training materials including:
- Information assurance and maintenance processes and troubleshooting
- Operating System tailoring and generation
- Implementation of new software releases
- Security features
- Hardware maintenance and support.
- Other pRFID related needs

8. WARRANTY

8.1. WARRANTY SUPPORT

A methodical approach to warranty support reduces total cost of ownership. Integrating phone support, repair centers and warranty status information into a central location, enables a quick reaction and provides seamless support for our customers. Refer to Section 8.6 for the Warranty and Maintenance Procedures.

8.2. MANUFACTURER'S WARRANTY

We provide a minimum three-year warranty for all equipment purchased and the option at time of purchase to procure a four or five year warranty that is in effect at the time of original purchase. The integrated support center serves as the centralized hub for initiating any warranty activity. Users call a toll free phone number where a person with access to a serial number database determines the warranty status of the device in question. This warranty information will also be available on the pRFID II contract website. Our Team uses the manufacturer's warranty for all equipment purchased with a warranty. Refer to Section 8.6 for the Warranty and Maintenance Procedures.

8.3. WHEN EQUIPMENT IS UNDER WARRANTY

When a device is under the manufacturer's warranty, and over the phone troubleshooting does not solve an issue, we issue a Return Material Authorization (RMA) number, and forward instructions for shipping the device back to the manufacturer. We provide a loaner or permanent replacement to the device location while we have an assessment performed on the inoperable device. If the device is repairable, we have it repaired and swap it out for the loaner. If the device is not repairable, the permanent replacement is already in place. Refer to Section 8.6 for the Warranty and Maintenance Procedures.

8.4. WHEN EQUIPMENT IS OUT OF WARRANTY

The physical asset flow and processes for requesting customer support remain the same for the customer. The exception is when the product is determined to be out of warranty. Our customer support team will provide a high-level assessment of the trouble and determine if the problem is a result of a missed software revision or update. In these situations, we will provide the correct revision to resolve the issue. If it is determined the product requires a more detailed analysis, the customer will have the option to purchase a replacement or send the item to a repair facility for a cost-to-repair assessment. At this point in the process, we will instruct the user on retuning the inoperable device to the appropriate integrated support center for evaluation. Upon completing the cost-to-repair evaluation, we will submit our findings to the customer for their decision. If the decision by the customer is to repair the asset, we will ensure repair activities (handling and processing, billing, quality assurance, etc.) are accomplished in compliance with both government contractual obligations and industry standards. Note: No repair action will occur without customer consent. If repair is not feasible, we will follow disposition instructions provided by the Government User. When a device is out of warranty, we provide options to users for how they can resolve potential failures through return, on-site service or other price alternatives. The support center can authorize a replacement device to the location if desired. We instruct the user on returning the inoperable device to one of the integrated support center's repair locations for evaluation. If the device is repairable, we have it repaired and placed into spare stock. If the device is not repairable, the Defense Reutilization and Marketing Office (DRMO) process begins. Refer to Section 8.6 for the Warranty and Maintenance Procedures.

8.5. WARRANTY TRACKING

The support center is fully integrated into procurement, so that the warranty status of all devices in the field is tracked by serial number. We generate a monthly report to notify users of pending warranty expiration. Refer to Section 8.6 for the Warranty and Maintenance Procedures.

8.6. WARRANTY AND MAINTENANCE PROCEDURES

1. Prior to contacting us for service, please be sure to have the following information ready:
    a. Model of unit requiring service
    b. Serial number of unit requiring service
    c. Contact name
    d. Contact phone number
    e. Address where unit(s) requiring service are located
    f. Brief description of problem you are experiencing
2. Contact the service center for service request.
3. Service technicians will call users to determine if unit(s) return is necessary.
    a. If the issue can be resolved over the phone the service ticket is closed.
    b. If the issue requires that the unit(s) be returned a return material authorization (RMA) number and UPS return label are issued to the user.
        i. Unit(s) are received and inspected
        ii. Unit(s) are repaired
        iii. Unit(s) are staged per contract requirements
        iv. Unit(s) are returned to user – Please provide address if different from pick-up location.

For unit(s) requiring return for repair service, please note the following:

- Ship unit in original packaging or equivalent to avoid shipping damage
- Options should not be returned with unit if not required for repair or evaluation
- Ribbons and labels should be removed from printers prior to shipping, but samples should be provided for testing purposes
- RMA# should appear on outside of package and on packing slip
- Batteries should be removed prior to shipping terminals

Contact Information for Hardware Warranty and Maintenance Repairs and information:

Phone:	CONUS	800-733-0010 – Option 8
	OCONUS	810-229-7200 ext. 1718
Email:	servicerequest@lowrycomputer.com	
Web:	www.lowrycomputer.com/lowry-service-request-form OR www.lowrycomputer.com; select Services; select Support Services OR http://ait.srahosting.com/support.html	

NOTE: Procedures are the same for items covered under Hardware Maintenance Agreements. If there is a lapse in coverage due to the expiration of the hardware warranty or a lapse in monthly hardware maintenance, unit(s) will be inspected to assure they are in proper working order. If any unit(s) require repair, the Government must order per incident maintenance for unit(s) before acceptance of the unit(s) under monthly hardware maintenance.

9. MAINTENANCE SUPPORT

9.1. pRFID Component Return and Tracking

The Government can request RMAs by phone or by the Asset Tracking System portal. Once the RMA number is issued, instructions for shipping the device back to the appropriate repair facility will be provided.

9.2. On-Call Maintenance

The SRA Team provides on-call maintenance when ordered.

9.3. Maintenance Replacement Parts

We take no chances on re-built or inferior components, utilizing only high quality, new and warranted equipment built at the same high standards by the OEM to repair / replace Government pRFID assets. All replacement parts will carry warrantees for a minimum of 90 days. Through close communications with the Government, we will comply with all disposition regulations and collaboratively ensure proper disposition or destruction of all end-of-life equipment.

Maintenance can be ordered through the CLINs specified below, pricing can be found in Section 10:

Table 9-1 : pRFID Maintenance SLINs

pRFID – Fixed Reader	
SLIN 0031 AA	Per Incident (CONUS/OCONUS)
SLIN 0031 AB	On-Call (CONUS/OCONUS)
pRFID – Fixed Reader Vehicle Mount	
SLIN 0033 AA	Per Incident (CONUS/OCONUS)
SLIN 0033AB	On-Call (CONUS/OCONUS)
pRFID – Smart Table	
SLIN 0035 AA	Per Incident (CONUS/OCONUS)
SLIN 0035 AB	On-Call (CONUS/OCONUS)
pRFID – Handheld Reader	
SLIN 0037 AA	Per Incident (CONUS/OCONUS)
SLIN 0037 AB	On-Call (CONUS/OCONUS)
pRFID - Printer	
SLIN 0039 AA	Per Incident (CONUS/OCONUS)
SLIN 0039 AB	On-Call (CONUS/OCONUS)

9.4. Software Maintenance

9.4.1.Support Services

End user purchasing software from the pRFID-II IDIQ vehicle software SLINS will receive software support services. Software support services include Level I, II and III support services from the Customer Support organization. Software Support is available using the following contact information:

•Phone: (703) 284-3223
•Email: pRFID@sra.com

- **First Level Support**: Level 1 includes call acceptance and response by technical staff, problem trouble-shooting and identification and provision of fixes, work-arounds and other software maintenance releases.

- **Second Level Support**: Level 2 includes diagnosing problems surrounding more complex technical issues associated with a deployment. This level requires deeper technical knowledge

and understanding of RFID, software, hardware, operating systems, protocols and interfaces. The solutions at this level require changing configuration data, tuning the platform, debugging applications, and etc.

- **Third Level Support**: Level 3 includes advance diagnostics from the engineering organization in analyzing logs, deciphering detailed error messages and looking at crash dumps. Engineering may need to analyze product code to determine the issue. This level requires deeper technical understanding of the software from a developer's perspective.

9.4.2.Support Responsibilities

Level 1 Response. Level 1 support will record the incident, perform diagnostics and resolve the issue using all internal support resources as well as support and reference materials in the form of support and product documentation and on-line knowledgebase(s). The initial support level is generally responsible for basic customer issues. The initial priority is to gather the customer's information and to determine the customer's issue by analyzing the symptoms and capturing the underlying problem. When analyzing the symptoms, it is important to identify what task the customer is trying to accomplish.

Level 2 Response. If a support agent cannot resolve a Level 1 incident, the incident is escalated to Level 2 support. This is a more in-depth technical support level than Level 1 response and the technicians are more experienced and more knowledgeable on a particular product or service. Technicians in this realm of knowledge are responsible for assisting Tier I personnel in solving basic technical problems and for investigating elevated issues by confirming the validity of the problem and seeking for known solutions related to these more complex issues.

Technicians will collect information such as program name that is failed or application name or any database related details (table name, view name, package name, etc.) or API names. Level 2 response may include reinstallation of software, replacements of various hardware components, software repair, diagnostic testing, and the utilization of remote control tools used to take over the user's machine for the sole purpose of troubleshooting and finding a solution to the problem.

Level 3 Response. If a support agent cannot resolve a Level 2 incident, the incident is escalated to Level 3. Whenever a Level 3 incident occurs, the Level 1 or 2 support technician will escalate to issues to the support team as soon as possible. The customer support agent will be provided with the following customer information by the Customer Point of Contact:

- Company name, contact name, address, telephone, email address, emergency contact information
- Devices installed
- Application installed
- Account status (maintenance level, payment status)
- Review case history
- Detailed description of the issue being reported

10. PRFID II CLIN PRICING

HARDWARE and SOFTWARE				3-YR Base: (20 MAR 2013 - 19 MAR 2016)	
	Passive RFID - Fixed Readers				
SLIN	MFG	PART NO	Product Description and Ancillary Items	Warranty	Firm Fixed Unit Price
0001 AA	**Intermec**	**PRF2-0001AA**	**pRFID - Fixed Reader 902-928MHz (FCC)**	**3 year**	**$1,569.75**
		IF2A000014	Network Reader (includes mounting bracket)		
		851-061-408	Universal AC Adapter		
		1-974028-025	AC Power Cord		
		805-654-001	Circular Polarized Antenna 915 MHz (IA33G) (2)		
		805-653-001	Antenna Mounting Bracket (2)		
		236-230-001	13 ft Antenna Cable (2)		
		IF2-BRZDC3	3 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0001 AB	**Intermec**	**PRF2-0001AB**	**pRFID - Fixed Reader 902-928MHz (FCC)**	**4 year**	**$1,633.30**
		IF2A000014	Network Reader (includes mounting bracket)		
		851-061-408	Universal AC Adapter		
		1-974028-025	AC Power Cord		
		805-654-001	Circular Polarized Antenna 915 MHz (IA33G) (2)		
		805-653-001	Antenna Mounting Bracket (2)		
		236-230-001	13 ft Antenna Cable (2)		
		IF2-BRZDC4	4 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0001 AC	**Intermec**	**PRF2-0001AC**	**pRFID - Fixed Reader 902-928MHz (FCC)**	**5 year**	**$1,594.03**
		IF2A000014	Network Reader (includes mounting bracket)		
		851-061-408	Universal AC Adapter		
		1-974028-025	AC Power Cord		
		805-654-001	Circular Polarized Antenna 915 MHz (IA33G) (2)		
		805-653-001	Antenna Mounting Bracket (2)		
		236-230-001	13 ft Antenna Cable (2)		
		IF2-BRZDC5	5 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0001 AE	**Intermec**	**PRF2-0001AE**	**pRFID - Fixed Reader 862-870MHz (ETSI)**	**3 year**	**$1,480.90**
		IF2A000002	Network Reader (includes mounting bracket)		
		851-061-408	Universal AC Adapter		
		1-974028-025	AC Power Cord		
		805-656-001	Circular Polarized Antenna 868 MHz (IA33F) (2)		
		805-653-001	Antenna Mounting Bracket (2)		
		236-230-001	13 ft Antenna Cable (2)		

		IF2-BRZDC3	3 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0001 AF	**Intermec**	**PRF2-0001AF**	**pRFID - Fixed Reader 862-870MHz (ETSI)**	**4 year**	**$1,554.88**
		IF2A000002	Network Reader (includes mounting bracket)		
		851-061-408	Universal AC Adapter		
		1-974028-025	AC Power Cord		
		805-656-001	Circular Polarized Antenna 868 MHz (IA33F) (2)		
		805-653-001	Antenna Mounting Bracket (2)		
		236-230-001	13 ft Antenna Cable (2)		
		IF2-BRZDC4	4 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0001 AG	**Intermec**	**PRF2-0001AG**	**pRFID - Fixed Reader 862-870MHz (ETSI)**	**5 year**	**$1,594.03**
		IF2A000002	Network Reader (includes mounting bracket)		
		851-061-408	Universal AC Adapter		
		1-974028-025	AC Power Cord		
		805-656-001	Circular Polarized Antenna 868 MHz (IA33F) (2)		
		805-653-001	Antenna Mounting Bracket (2)		
		236-230-001	13 ft Antenna Cable (2)		
		IF2-BRZDC5	5 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0001AH	**Impinj**	**PRF2-0001AJ**	**pRFID - Fixed Reader 902-928MHz (FCC)**	**3 Year**	**$1,981.38**
		IPJ-REV-R640-FCC	xPortal without power supply/power cord, IPJ-A2002-000 - Universal Power Supply without AC Power Cord,IPJ-A2051-USA - AC Power Cord (USA), IPJ-C2002 - 2 Year Warranty Extension		
0001AI	**Impinj**	**PRF2-0001AI**	**pRFID - Fixed Reader 862-870MHz (ETSI)**	**3 Year**	$1,981.38
		IPJ-REV-R640-ETSI	PJ-REV-R640-EU1 xPortal (ETSI) without power supply/power cord, IPJ-A2002-000 - Universal Power Supply without AC Power Cord, IPJ-A2051-EU1 - AC Power Cord (USA), IPJ-C2002 - 2 Year Warranty Extension		
	Passive RFID - Vehicle Mount Fixed Readers				
SLIN	**MFG**	**PART NO**	**Product Description and Ancillary Items**	**Warranty**	**Firm Fixed Unit Price**
0003 AA	**Intermec**	**PRF2-0003AA**	**pRFID - Vehicle Mount Reader 902-928MHz (FCC)**	**3 year**	**$5,863.33**
		IV7D202014	Vehicle Mount Reader (includes mounting plate)		
		203-779-001	Kit, DC/DC Power Supply		
		203-713-003	Kit, IV7, Power Cable		
		805-816-002	Circular Polarized Antenna 915 MHz (IA33E) (2)		
		236-021-002	13 ft Antenna Cable (2)		
		203-776-001	Kit, Data Cable Assembly		
		236-147-001	Cable 9pin Dsub to pigtail, 6'		
		321-497-101	Serial Modem Cable, 6'		

		IV7-BRZDC3	3 Year Warranty		
		9200D-SF00	DLI Vehicle Mount Terminal (9200D-SF00)		
		46011140010010	Antenna, 2.4GHz - 5.5in Rubber Duck S-083-03		
		3728500101800P	RAM Ball Mounting Bracket		
		RAM-202U	Round Mounting Base		
		RAM-201U	Socket Arm		
		3431182037500P	Power Cable, 3-prong Locking Connector, 12' w/10A Fuse with bare leads		
		SRV9200-NF3-A	3 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0003 AB	**Intermec**	**PRF2-0003AB**	**pRFID - Vehicle Mount Reader 902-928MHz (FCC)**	**4 year**	**$6,112.67**
		IV7D202014	Vehicle Mount Reader (includes mounting plate)		
		203-779-001	Kit, DC/DC Power Supply		
		203-713-003	Kit, IV7, Power Cable		
		805-816-002	Circular Polarized Antenna 915 MHz (IA33E) (2)		
		236-021-002	13 ft Antenna Cable (2)		
		203-776-001	Kit, Data Cable Assembly		
		75512	Cable 9pin Dsub to pigtail, 6'		
		321-497-101	Serial Modem Cable, 6’		
		IV7-BRZDC4	4 Year Warranty		
		9200D-SF00	DLI Vehicle Mount Terminal (9200D-SF00)		
		4.60111E+13	Antenna		
		3728500101800P	RAM Ball Mounting Bracket		
		RAM-202U	Round Mounting Base		
		RAM-201U	Socket Arm		
		3431182037500P	Power Cable, 3-prong Locking Connector, 12' w/10A Fuse with bare leads		
		SRV9200-NF3-A	3 Year Warranty + (1) SRV9200-NF1-A 1 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0003 AC	**Intermec**	**PRF2-0003AC**	**pRFID - Vehicle Mount Reader 902-928MHz (FCC)**	**5 year**	**$6,105.78**
		IV7D202014	Vehicle Mount Reader (includes mounting plate)		
		203-779-001	Kit, DC/DC Power Supply		
		203-713-003	Kit, IV7, Power Cable		
		805-816-002	Circular Polarized Antenna 915 MHz (IA33E) (2)		
		236-021-002	13 ft Antenna Cable (2)		
		203-776-001	Kit, Data Cable Assembly		
		75512	Cable 9pin Dsub to pigtail, 6'		
		321-497-101	Serial Modem Cable, 6’		
		IV7-BRZDC5	5 Year Warranty		
		9200D-SF00	DLI Vehicle Mount Terminal (9200D-SF00)		
		46011140010010	Antenna, 2.4GHz - 5GHz, 5.5in Rubber Duck S-083-03		
		3728500101800P	RAM Ball Mounting Bracket		
		RAM-202U	Round Mounting Base		
		RAM-201U	Socket Arm		

		3431182037500P	Power Cable, 3-prong Locking Connector, 12' w/10A Fuse with bare leads		
		SRV9200-NF3-A	3 Year Warranty + (2) SRV9200-NF1-A 1 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0003 AD	**Intermec**	**PRF2-0003AD**	**pRFID - Vehicle Mount Reader 862-870MHz (ETSI)**	**3 year**	**$5,531.44**
		IV7D202002	Vehicle Mount Reader (includes mounting plate)		
		203-779-001	Kit, DC/DC Power Supply		
		203-713-003	Kit, IV7, Power Cable		
		805-816-001	Circular Polarized Antenna 868 MHz (IA33D) (2)		
		236-021-002	13 ft Antenna Cable (2)		
		203-776-001	Kit, Data Cable Assembly		
		75512	Cable 9pin Dsub to pigtail, 6'		
		321-497-101	Serial Modem Cable, 6’		
		IV7-BRZDC3	3 Year Warranty		
		9200D-SF00	DLI Vehicle Mount Terminal (9200D-SF00)		
		4.60111E+13	Antenna		
		3728500101800P	RAM Ball Mounting Bracket		
		RAM-202U	Round Mounting Base		
		RAM-201U	Socket Arm		
		3431182037500P	Power Cable, 3-prong Locking Connector, 12' w/10A Fuse with bare leads		
		SRV9200-NF3-A	3 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0003 AE	**Intermec**	**PRF2-0003AE**	**pRFID - Vehicle Mount Reader 862-870MHz (ETSI)**	**4 year**	**$5,766.67**
		IV7D202002	Vehicle Mount Reader (includes mounting plate)		
		203-779-001	Kit, DC/DC Power Supply		
		203-713-003	Kit, IV7, Power Cable		
		805-816-001	Circular Polarized Antenna 868 MHz (IA33D) (2)		
		236-021-002	13 ft Antenna Cable (2)		
		203-776-001	Kit, Data Cable Assembly		
		75512	Cable 9pin Dsub to pigtail, 6'		
		321-497-101	Serial Modem Cable, 6’		
		IV7-BRZDC4	4 Year Warranty		
		9200D-SF00	DLI Vehicle Mount Terminal (9200D-SF00)		
		46011140010010	Antenna, 2.4GHz - 5GHz, 5.5in Rubber Duck S-083-03		
		3728500101800P	RAM Ball Mounting Bracket		
		RAM-202U	Round Mounting Base		
		RAM-201U	Socket Arm		
		3431182037500P	Power Cable, 3-prong Locking Connector, 12' w/10A Fuse with bare leads		
		SRV9200-NF3-A	3 Year Warranty + (1) SRV9200-NF1-A 1 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		

0003 AF	**Intermec**	**PRF2-0003AF**	**pRFID - Vehicle Mount Reader 862-870MHz (ETSI)**	**5 year**	**$6,055.79**
		IV7D202002	Vehicle Mount Reader (includes mounting plate)		
		203-779-001	Kit, DC/DC Power Supply		
		203-713-003	Kit, IV7, Power Cable		
		805-816-001	Circular Polarized Antenna 868 MHz (IA33D) (2)		
		236-021-002	13 ft Antenna Cable (2)		
		203-776-001	Kit, Data Cable Assembly		
		75512	Cable 9pin Dsub to pigtail, 6'		
		321-497-101	Serial Modem Cable, 6’		
		IV7-BRZDC5	5 Year Warranty		
		9200D-SF00	DLI Vehicle Mount Terminal (9200D-SF00)		
		46011140010010	Antenna, 2.4GHz - 5GHz, 5.5in Rubber Duck S-083-03		
		3728500101800P	RAM Ball Mounting Bracket		
		RAM-202U	Round Mounting Base		
		RAM-201U	Socket Arm		
		3431182037500P	Power Cable, 3-prong Locking Connector, 12' w/10A Fuse with bare leads		
		SRV9200-NF3-A	3 Year Warranty + (2) SRV9200-NF1-A 1 Year Warranty		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
	Passive RFID - Hand Held Readers				
SLIN	**MFG**	**PART NO**	**Product Description and Ancillary Items**	**Warranty**	**Firm Fixed Unit Price**
0005 AA	**Intermec**	**PRF2-0005AA**	**pRFID Hand Held Reader (HHR-A) [Non-NI] 902-928MHz (FCC)**	**3 year**	**$2,435.28**
		CN70GQ4KN14G6X40	CN70e Handheld Terminal with RFID (915 MHz)		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-3-C	3 Year Warranty - Handheld		
		FLEXDOCK-BRZDC3	3 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 AB	**Intermec**	**PRF2-0005AB**	**pRFID Hand Held Reader (HHR-A) [Non-NI] 902-928MHz (FCC)**	**4 year**	**$2,528.24**
		CN70GQ4KN14G6X40	CN70e Handheld Terminal with RFID (915 MHz)		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-4-C	4 Year Warranty - Handheld		
		FLEXDOCK-BRZDC4	4 Year Warranty - Dock		

		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 AC	**Intermec**	**PRF2-0005AC**	**pRFID Hand Held Reader (HHR-A) [Non-NI] 902-928MHz (FCC)**	**5 year**	**$2,497.59**
		CN70GQ4KN14G6X40	CN70e Handheld Terminal with RFID (915 MHz)		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-012	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-5-C	5 Year Warranty - Handheld		
		FLEXDOCK-BRZDC4	5 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 AD	**Intermec**	**PRF2-0005AD**	**pRFID Hand Held Reader (HHR-A) [Non-NI] 862-870MHz (ETSI)**	**3 year**	**$2,297.43**
		CN70GQ4KN02G6X40	CN70e Handheld Terminal with RFID (868 MHz)		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-3-C	3 Year Warranty - Handheld		
		FLEXDOCK-BRZDC3	3 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 AE	**Intermec**	**PRF2-0005AE**	**pRFID Hand Held Reader (HHR-A) [Non-NI] 862-870MHz (ETSI)**	**4 year**	**$2,385.13**
		CN70GQ4KN02G6X40	CN70e Handheld Terminal with RFID (868 MHz)		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-4-C	4 Year Warranty - Handheld		
		FLEXDOCK-BRZDC4	4 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 AF	**Intermec**	**PRF2-0005AF**	**pRFID Hand Held Reader (HHR-A) [Non-NI] 862-870MHz (ETSI)**	**5 year**	**$2,497.59**
		CN70GQ4KN02G6X40	CN70e Handheld Terminal with RFID (868 MHz)		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		

		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-5-C	5 Year Warranty - Handheld		
		FLEXDOCK-BRZDC4	5 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 AG	**Intermec**	**PRF2-0005AG**	**Rechargeable Battery for HHR-A**		**$129.96**
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e		
			FOB: Destination		
0005 AH	**Intermec**	**PRF2-0005AH**	**Battery Charger/Communications Dock for HHR-A**		**$285.07**
		DX1A01A10	Desktop Dock, CN70/70e		
		871-238-011	Ether Mod, Single Dk-FlexDk		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
			FOB: Destination		
000 5AJ	**Apriva**	**PRF2-0005AJ**	**CAC Reader with Software for HHR-A**		**$373.88**
		BT200	Apriva BT200-T Bluetooth Smart Card Reader		
		BT200	includes USB Charging Cable and wall charger		
		BT200	includes AprivaCSPware Interface Software		
		BT200	includes AprivaGuard PKI Validation Software		
			FOB: Destination		
0005 AK	**Intermec**	**PRF2-0005AK**	**Carrying Device for HHR-A**		**$116.12**
		815-074-001	Holster, CN70/CN70e w/ Scan Handle		
			FOB: Destination		
0005 AL	**Intermec**	**PRF2-0005AL**	**AC Adapter for HHR-A**		**$228.56**
		850-567-001	Snap-on Adapter, USB, 70 Series (Provides HDB15M receptacle).		
		851-094-011	Power Supply, 3-pin connector, requires AC line cord		
			Country Specific Cord		
			FOB: Destination		
0005 BA	**Intermec**	**PRF2-0005BA**	**pRFID Hand Held Reader (HHR-B) [NI Certified] 902-928MHz (FCC)**	**3 year**	**$2,435.28**
		CN70GQ4KN14G6X40	CN70e Handheld Terminal with RFID (915 MHz), NI Certified		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-3-C	3 Year Warranty - Handheld		
		FLEXDOCK-BRZDC3	3 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		

0005 BB	**Intermec**	**PRF2-0005BB**	**pRFID Hand Held Reader (HHR-B) [NI Certified] 902-928MHz (FCC)**	**4 year**	**$2,528.24**
		CN70GQ4KN14G6X40	CN70e Handheld Terminal with RFID (915 MHz), NI Certified		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-4-C	4 Year Warranty - Handheld		
		FLEXDOCK-BRZDC4	4 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 BC	**Intermec**	**PRF2-0005BC**	**pRFID Hand Held Reader (HHR-B) [NI Certified] 902-928MHz (FCC)**	**5 year**	**$2,497.59**
		CN70GQ4KN14G6X40	CN70e Handheld Terminal with RFID (915 MHz), NI Certified		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-5-C	5 Year Warranty - Handheld		
		FLEXDOCK-BRZDC5	5 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 BD	**Intermec**	**PRF2-0005BD**	**pRFID Hand Held Reader (HHR-B) [NI Certified] 862-870MHz (ETSI)**	**3 year**	**$2,435.28**
		CN70GQ4KN02G6X40	CN70e Handheld Terminal with RFID (868 MHz), NI Certified		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-3-C	3 Year Warranty - Handheld		
		FLEXDOCK-BRZDC3	3 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 BE	**Intermec**	**PRF2-0005BE**	**pRFID Hand Held Reader (HHR-B) [NI Certified] 862-870MHz (ETSI)**	**4 year**	**$2,528.24**
		CN70GQ4KN02G6X40	CN70e Handheld Terminal with RFID (868 MHz), NI Certified		
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack,		

			CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-4-C	4 Year Warranty - Handheld		
		FLEXDOCK-BRZDC4	4 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 BF	**Intermec**	**PRF2-0005BF**	**pRFID Hand Held Reader (HHR-B) [NI Certified] 862-870MHz (ETSI)**	**5 year**	**$2,497.59**
		CN70GQ4KN02G6X40	CN70e Handheld Terminal with RFID (868 MHz), NI Certified	ETSI Use	
		856-065-005	2GB SD Memory Card		
		DX1A01A10	Desktop Dock, CN70/70e		
		805-835-001	Scan Handle, CN70/70e		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e, NI		
		321-576-004	USB Interface Cable		
		MEDC1-BRZ-5-C	5 Year Warranty - Handheld		
		FLEXDOCK-BRZDC5	5 Year Warranty - Dock		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0005 BG	**Intermec**	**PRF2-0005BG**	**Rechargeable Battery for HHR-B**		**$129.96**
		318-043-112	Spare Rechargeable Battery Pack, CN70/70e		
			FOB: Destination		
0005 BH	**Intermec**	**PRF2-0005BH**	**Battery Charger/Communications Dock for HHR-B**		**$285.07**
		DX1A01A10	Desktop Dock, CN70/70e		
		871-238-011	Ether Mod, Single Dk-FlexDk		
		851-095-121	Univ Supply, 12V 48W, RA 2.5x5.5 Level V		
			FOB: Destination		
0005 BJ	**Intermec/Apriva**	**PRF2-0005BJ**	**CAC Reader with Software for HHR-B**		**$373.88**
		BT200	Apriva BT200-T Bluetooth Smart Card Reader		
		BT200	includes USB Charging Cable and wall charger		
		BT200	includes AprivaCSPware Interface Software		
		BT200	includes AprivaGuard PKI Validation Software		
			FOB: Destination		
0005 BK	**Intermec**	**PRF2-0005BK**	**Carrying Device for HHR-B**		**$116.12**
		815-074-001	Holster, CN70/CN70e w/ Scan Handle		
			FOB: Destination		
0005 BL	**Intermec**	**PRF2-0005BL**	**AC Adapter for HHR-B**		**$228.56**
		850-567-001	Snap-on Adapter, USB, 70 Series (Provides HDB15M receptacle)		
		851-094-011	Power Supply, 3-pin connector, requires AC line cord		
			Country Specific Cord		
			FOB: Destination		
0005 CA*	Intermec	PRF2-0005CA	"**RESERVE**" (See Note #1) pRFID Hand Held Reader (HHR-C) [NI Certified] (QWERTY) 902-928MHz	3 year	$3,911.25

"On Reserve"		CN4G8H801D5E700	CN4e Handheld Terminal, NI Certified, CDMA, Sprint, Alpha/Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		MEDC2-BRZ-3-C	3 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC3	3 Year Warranty - Reader		
			FOB: Destination		
0005 CB*	Intermec	PRF2-0005CB	"**RESERVE**" (See Note #1) pRFID Hand Held Reader (HHR-C) [NI Certified] (QWERTY) 902-928MHz	4 year	$4,063.48
		CN4G8H801D5E700	CN4e Handheld Terminal, NI Certified, CDMA, Sprint, Alpha/Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		MEDC2-BRZ-4-C	4 Year Warranty - Handheld		
		CN3SD-BRZDC4	4 Year Warranty - Dock		
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC4	4 Year Warranty - Reader		
			FOB: Destination		
0005 CC*	Intermec	PRF2-0005CC	"**RESERVE**" (See Note #1) pRFID Hand Held Reader (HHR-C) [NI Certified] (QWERTY) 902-928MHz	5 year	$4,209.20
		CN4G8H801D5E700	CN4e Handheld Terminal, NI Certified, CDMA, Sprint, Alpha/Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		MEDC2-BRZ-5-C	5 Year Warranty - Handheld		

		CN3SD-BRZDC4	4 Year Warranty - Dock		
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC5	5 Year Warranty - Reader		
			FOB: Destination		
0005 CD*	Intermec	PRF2-0005CD	"**RESERVE**" (See Note #1) Hand Held Terminal (HHT-C) [NI Certified] (QWERTY) w/out pRFID Reader	3 year	$2,411.11
		CN4G8H801D5E700	CN4e Handheld Terminal, NI Certified, CDMA, Sprint, Alpha/Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		203-907-001	Detachable Handle and Trigger for CN4		
		MEDC2-BRZ-3-C	3 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
			FOB: Destination		
0005 CE*	Intermec	PRF2-0005CE	"**RESERVE**" (See Note #1) Hand Held Terminal (HHT-C) [NI Certified] (QWERTY) w/out pRFID Reader	4 year	$2,513.56
		CN4G8H801D5E700	CN4e Handheld Terminal, NI Certified, CDMA, Sprint, Alpha/Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		203-907-001	Detachable Handle and Trigger for CN4		
		MEDC2-BRZ-4-C	4 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
			FOB: Destination		
0005 CF*	Intermec	PRF2-0005CF	"**RESERVE**" (See Note #1) Hand Held Terminal (HHT-C) [NI Certified] (QWERTY) w/out pRFID Reader	5 year	$2,556.22
		CN4G8H801D5E700	CN4e Handheld Terminal, NI Certified, CDMA, Sprint, Alpha/Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		203-907-001	Detachable Handle and Trigger for CN4		
		MEDC2-BRZ-5-C	5 Year Warranty - Handheld		

		CN3SD-BRZDC3	3 Year Warranty - Dock		
			FOB: Destination		
0005 CG*	Intermec	PRF2-0005CG	"**RESERVE**" (See Note #1) pRFID Reader (R-C) [NI Certified] 902-928MHz - pRFID upgrade for HHT-C	3 year	$1,693.16
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC3	3 Year Warranty - Reader		
			FOB: Destination		
0005 CH*	Intermec	PRF2-0005CH	"**RESERVE**" (See Note #1) pRFID Reader (R-C) [NI Certified] 902-928MHz - pRFID upgrade for HHT-C	4 year	$1,744.90
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC4	4 Year Warranty - Reader		
			FOB: Destination		
0005 CJ*	Intermec	PRF2-0005CJ	"**RESERVE**" (See Note #1) pRFID Reader (R-C) [NI Certified] 902-928MHz - pRFID upgrade for HHT-C	5 year	$1,697.06
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC5	5 Year Warranty - Reader		
			FOB: Destination		
0005 CK*	Intermec	PRF2-0005CK	"**RESERVE**" (See Note #1) Rechargeable Battery for HHR-C		$136.46
		318-016-102	CN3/CN4 Spare Battery		
			FOB: Destination		
0005 CL*	Intermec	PRF2-0005CL	"**RESERVE**" (See Note #1) Battery Charger/Communications Dock for HHR-C		$278.32
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply - Power Adapter		
		1-974028-025	AC Power Cord		
			FOB: Destination		
0005 CM*	Intermec/Apriva	PRF2-0005CM	"**RESERVE**" (See Note #1) CAC Reader with Software for HHR-C		$373.88
		850-563-001	Apriva BT200-T Bluetooth Smart Card Reader		
		850-563-001	includes USB Charging Cable		
		850-563-001	includes AprivaCSPware Interface Software		
		850-563-001	includes AprivaGuard PKI Validation Software		
			FOB: Destination		

0005 CN*	Intermec	PRF2-0005CN	"**RESERVE**" (See Note #1) Carrying Device for HHR-C		$342.24
		825-217-001	Holster with Shoulder Strap, IP30 CN4		
			FOB: Destination		
0005 CP*	Intermec	PRF2-0005CP	"**RESERVE**" (See Note #1) AC Adapter for HHR-C		$167.45
		850-559-001	Snap-on Adapter, CN3/CN4 series, USB PT (Snap-on adapter for enabling USB host or client communications from bottom of CN3/CN4 or CN3e/CN4e. Must order cables separately. Adapter provides DB15M connector. Requires use of USB adapter cable VE011-2016 or VE011-2018. Supports use of Power Supply 851-089-003		
		851-089-003	Univ Pwr Supply (Allows for charging CN3/CN4 series without a dock)		
		1-974028-025	AC Power Cord		
			FOB: Destination		
0005 DA*	Intermec	PRF2-0005DA	"**RESERVE**" (See Note #1) pRFID Hand Held Reader (HHR-D) [NI Certified] (Numeric Keypad) 902-928MHz	3 year	$4,064.63
		CN4G5H801D5E700	CN4e Handheld Terminal, NI Certified , CDMA, Sprint, Phone Style Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		MEDC2-BRZ-3-C	3 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC3	3 Year Warranty - Reader		
			FOB: Destination		
0005 DB*	Intermec	PRF2-0005DB	"**RESERVE**" (See Note #1) pRFID Hand Held Reader (HHR-D) [NI Certified] (Numeric Keypad) 902-928MHz	4 year	$4,305.90
		CN4G5H801D5E700	CN4e Handheld Terminal, NI Certified , CDMA, Sprint, Phone Style Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		MEDC2-BRZ-4-C	4 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory,		

			IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC4	4 Year Warranty - Reader		
			FOB: Destination		
0005 DC*	Intermec	PRF2-0005DC	"**RESERVE**" (See Note #1) pRFID Hand Held Reader (HHR-D) [NI Certified] (Numeric Keypad) 902-928MHz	5 year	$4,126.67
		CN4G5H801D5E700	CN4e Handheld Terminal, NI Certified , CDMA, Sprint, Phone Style Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		MEDC2-BRZ-5-C	5 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC5	5 Year Warranty - Reader		
			FOB: Destination		
0005 DD*	Intermec	PRF2-0005DD	"**RESERVE**" (See Note #1) Hand Held Terminal (HHT-D) [NI Certified] (Numeric Keypad) w/out pRFID Reader	3 year	$2,505.66
		CN4G5H801D5E700	CN4e Handheld Terminal, NI Certified , CDMA, Sprint, Phone Style Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		203-907-001	Detachable Handle and Trigger for CN4		
		MEDC2-BRZ-3-C	3 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
			FOB: Destination		
0005 DE*	Intermec	PRF2-0005DE	"**RESERVE**" (See Note #1) Hand Held Terminal (HHT-D) [NI Certified] (Numeric Keypad) w/out pRFID Reader	4 year	$2,612.13
		CN4G5H801D5E700	CN4e Handheld Terminal, NI Certified , CDMA, Sprint, Phone Style Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		

		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		203-907-001	Detachable Handle and Trigger for CN4		
		MEDC2-BRZ-4-C	4 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
			FOB: Destination		
0005 DF*	Intermec	PRF2-0005DF	"**RESERVE**" (See Note #1) Hand Held Terminal (HHT-D) [NI Certified] (Numeric Keypad) w/out pRFID Reader	5 year	$2,556.22
		CN4G5H801D5E700	CN4e Handheld Terminal, NI Certified , CDMA, Sprint, Phone Style Numeric		
		856-069-005	2GB Mini-SD Card		
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord, US		
		318-016-102	CN3/CN4 Spare Battery		
		714-626-001	CN3/CN4 Spare Stylus		
		321-576-004	USB Interface Cable		
		203-907-001	Detachable Handle and Trigger for CN4		
		MEDC2-BRZ-5-C	5 Year Warranty - Handheld		
		CN3SD-BRZDC3	3 Year Warranty - Dock		
			FOB: Destination		
0005 DG*	Intermec	PRF2-0005DG	"**RESERVE**" (See Note #1) pRFID Reader (R-D) [NI Certified] 902-928MHz - pRFID upgrade for HHT-D	3 year	$1,693.16
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC3	3 Year Warranty - Reader		
			FOB: Destination		
0005 DH*	Intermec	PRF2-0005DH	"**RESERVE**" (See Note #1) pRFID Reader (R-D) [NI Certified] 902-928MHz - pRFID upgrade for HHT-D	4 year	$1,744.90
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC4	4 Year Warranty - Reader		
			FOB: Destination		
0005 DJ*	Intermec	PRF2-0005DJ	"**RESERVE**" (See Note #1) pRFID Reader (R-D) [NI Certified] 902-928MHz - pRFID upgrade for HHT-D	5 year	$1,697.06
		IP30G0U9004	IP30 Snap-on pRFID Reader, NI Certified, 915MHz		
		318-037-001	Operational Battery W/Boot Accessory, IP30		
		318-037-001	Spare Battery W/Boot Accessory, IP30		
		852-907-001	Charger, 2 bay, SR61/IP30		
		851-082-203	Univ Power Supply		
		1-974028-025	AC Power Cord		
		IP30-BRZDC5	5 Year Warranty - Reader		
			FOB: Destination		

0005 DK*	Intermec	PRF2-0005DK	"**RESERVE**" (See Note #1) Rechargeable Battery for HHR-D		$136.46
		318-016-102	CN3/CN4 Spare Battery		
			FOB: Destination		
0005 DL*	Intermec	PRF2-0005DL	"**RESERVE**" (See Note #1) Battery Charger/Communications Dock for HHR-D		$278.32
		871-025-002	CN3/CN4 Charger / Communications Dock		
		851-082-203	Universal Power Supply		
		1-974028-025	AC Power Cord		
			FOB: Destination		
0005 DM*	Intermec/Apriva	PRF2-0005DM	"**RESERVE**" (See Note #1) CAC Reader with Software for HHR-D		$373.88
		850-563-001	Apriva BT200-T Bluetooth Smart Card Reader		
		850-563-001	includes USB Charging Cable		
		850-563-001	includes AprivaCSPware Interface Software		
		850-563-001	includes AprivaGuard PKI Validation Software		
			FOB: Destination		
0005 DN*	Intermec	PRF2-0005DN	"**RESERVE**" (See Note #1) Carrying Device for HHR-D		$342.24
		825-217-001	Holster with Shoulder Strap, IP30 CN4		
			FOB: Destination		
0005 DP*	Intermec	PRF2-0005DP	"**RESERVE**" (See Note #1) AC Adapter for HHR-D		$167.45
		850-559-001	Snap-on Adapter, CN3/CN4 series, USB PT (Snap-on adapter for enabling USB host or client communications from bottom of CN3/CN4 or CN3e/CN4e. Must order cables separately. Adapter provides DB15M connector. Requires use of USB adapter cable VE011-2016 or VE011-2018. Supports use of Power Supply 851-089-003		
		851-089-003	Univ Pwr Supply (Allows for charging CN3/CN4 series without a dock)		
		1-974028-025	AC Power Cord		
			FOB: Destination		
***Note #1**			**"RESERVE"** Product listed is no longer offered and/or available for purchase on this contract due to it being end of life. The item description provided is for reference, warranty, and maintenance purposes only. Should a replacement product be approved by the Government it will placed on this contract and available for ordering.		
	Passive RFID - Smart Tables				
SLIN	**MFG**	**PART NO**	**Product Description and Ancillary Items**	**Warranty**	**Firm Fixed Unit Price**
0007AA	**RFID Global Solution**	**STHD 3003-01X**	**pRFID Smart Table 30" x 48" 902-928MHz (FCC)**	**3 year**	**$7,180.38**
		Motorola FX7500	Motorola FX7500 (FCC) fixed reader		
			pRFID Smart Table 902-928MHz-RFID Global Services STHD3003- 0115M, 30"x48" H Adjustable Smart Table, with Motorola FX7500 (FCC) fixed reader and all required components for full operation		
			FOB: Destination		
0007AB	**RFID Global Solution**	**STHD 3003-01X**	**pRFID Smart Table 30" x 48" 902-928MHz (FCC)**	**4 year**	**$7,778.43**
		Motorola FX7500	Motorola FX7500 (FCC) fixed reader		
			STHD3003- 0115M, 30"x48" H Adjustable Smart Table, with Motorola FX7500 (FCC) fixed reader and all required components for full operation		

			FOB: Destination		
0007AC	**RFID Global Solution**	**STHD 3003-01X**	**pRFID Smart Table 30" x 48" 902-928MHz (FCC)**	**5 year**	**$7,902.36**
		Motorola FX7500	Motorola FX7500 (FCC) fixed reader		
			STHD3003- 0115M, 30"x48" H Adjustable Smart Table, with Motorola FX7500 (FCC) fixed reader and all required components for full operation		
			FOB: Destination		
0007AD	**RFID Global Solution**	**STHD 3003-01X**	**pRFID Smart Table 30" x 48" 862-870MHz (ETSI)**	**3 year**	**$6,773.94**
		Motorola FX7500	Motorola FX7500 (ETSI) fixed reader		
			STHD3003- 0125M, 30"x48" H Adjustable Smart Table, with Motorola FX7500 (ETSI) fixed reader and all required components for full operation		
			FOB: Destination		
0007AE	**RFID Global Solution**	**STHD 3003-01X**	**pRFID Smart Table 30" x 48" 862-870MHz (ETSI)**	**4 year**	**$7,338.14**
		Motorola FX7500	Motorola FX7500 (ETSI) fixed reader		
			STHD3003- 0125M, 30"x48" H Adjustable Smart Table, with Motorola FX7500 (ETSI) fixed reader and all required components for full operation		
			FOB: Destination		
0007AF	**RFID Global Solution**	**STHD 3003-01X**	**pRFID Smart Table 30" x 48" 862-870MHz (ETSI)**	**5 year**	**$7,902.36**
		Motorola FX7500	Motorola FX7500 (ETSI) fixed reader		
			STHD3003- 0125M, 30"x48" H Adjustable Smart Table, with Motorola FX7500 (ETSI) fixed reader and all required components for full operation		
			FOB: Destination		
	Passive RFID - Printer				
SLIN	**MFG**	**PART NO**	**Product Description and Ancillary Items**	**Warranty**	**Firm Fixed Unit Price**
0009AA	**Intermec**	**PRF2-0009AA**	**pRFID Thermal Transfer Printer - Desktop w/printing and RFID encoding software 902-928MHz (FCC)**	**3 year**	**$2,482.39**
		PM43G01NA0140201	PM43 Printer, RFID 915 MHz, 203 dpi resolution		
		MEDFP2-BRZ-3-C	3 Year Warranty		
		BT-PRO	BarTender PRO Label Software		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0009AB	**Intermec**	**PRF2-0009AB**	**pRFID Thermal Transfer Printer - Desktop w/printing and RFID encoding software 902-928MHz (FCC)**	**4 year**	**$2,545.36**
		PM43G01NA0140201	PM43 Printer, RFID 915 MHz, 203 dpi resolution		
		MEDFP2-BRZ-4-C	4 Year Warranty		
		BT-PRO	BarTender PRO Label Software		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0009AC	**Intermec**	**PRF2-0009AC**	**pRFID Thermal Transfer Printer - Desktop w/printing and RFID encoding software 902-928MHz (FCC)**	**5 year**	**$2,452.21**
		PM43G01NA0140201	PM43 Printer, RFID 915 MHz, 203 dpi resolution		
		MEDFP2-BRZ-5-C	5 Year Warranty		
		BT-PRO	BarTender PRO Label Software		

		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0009AD	**Intermec**	**PRF2-0009AD**	**pRFID Thermal Transfer Printer - Desktop w/printing and RFID encoding software 862-870MHz (ETSI)**	**3 year**	**$2,482.39**
		PM43G01EU0140201	PM43 Printer, RFID 866 MHz, 203 dpi resolution		
		MEDFP2-BRZ-3-C	3 Year Warranty		
		BT-PRO	BarTender PRO Label Software		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0009AE	**Intermec**	**PRF2-0009AE**	**pRFID Thermal Transfer Printer - Desktop w/printing and RFID encoding software 862-870MHz (ETSI)**	**4 year**	**$2,545.36**
		PM43G01EU0140201	PM43 Printer, RFID 866 MHz, 203 dpi resolution		
		MEDFP2-BRZ-4-C	4 Year Warranty		
		BT-PRO	BarTender PRO Label Software		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0009AF	**Intermec**	**PRF2-0009AF**	**pRFID Thermal Transfer Printer - Desktop w/printing and RFID encoding software 862-870MHz (ETSI)**	**5 year**	**$2,452.21**
		PM43G01EU0140201	PM43 Printer, RFID 866 MHz, 203 dpi resolution		
		MEDFP2-BRZ-5-C	5 Year Warranty		
		BT-PRO	BarTender PRO Label Software		
		946-006-001	CD with Documentation and Demo Software (if applicable)		
			FOB: Destination		
0009AG	**Intermec**	**PRF2-0009AG**	**Operator's Maintenance Kit**		**$23.21**
		1-110501-00	Cleaning Card, 4.5x6", box of 25		
			FOB: Destination		
0009AH	**Intermec**	**PRF2-0009AH**	**Replacement Print Head**		**$158.19**
		201-031-420	203 dpi Printhead, PC43 (User Installable)		
			FOB: Destination		
0009AJ	**Iimak**	**PRF2-0009AJ**	**4" wide Resin-Based Printer Ribbon**		**$90.34**
		SP330	4" wide Resin-Based Printer Ribbon		
			FOB: Destination		
			Passive RFID - Tags		
SLIN	**MFG**	**PART NO**	**Product Description and Ancillary Items**	**Warranty**	**Firm Fixed Unit Price**
0015AA	**Lowry**	**PRF2-0015AA**	**Shipping Tag - 4" X 2"**		**$340.00 (see min. requirement)**
		305-00205	Lowry 4x2 Synthetic RFID Label w/Alien Squiggle Higgs 3 inlay; 2000 labels/roll, (minimum order 1 roll / $340 per roll)		
			FOB: Destination		
0015AB	**Lowry**	**PRF2-0015AB**	**Shipping Tag - 4" X 6"**		**$135.00 (see min. requirement)**
		305-00206	Lowry 4x6 Synthetic RFID Label w/Alien Squiggle Higgs 3 inlay; 500 Labels/Roll, (minimum order 1 roll / $135 per roll)		
			FOB: Destination		

0015AC	**Omni ID**	**PRF2-0015AC**	**Hardened Standoff Tag**		**$3.42**
		024-GS	Omni ID Max Rigid Dual Band		
			FOB: Destination		
0015AD	**Intelleflex**	**PRF2-0015AD**	**Battery Assisted Passive Tag**		**$12.30**
		SMT-8100	Intelleflex SMT-8100, EPCglobal Class 3, Gen 2 battery assisted, hardened tag		
			FOB: Destination		
0015AE	**Lowry**	**PRF2-0015AE**	**Document Labeling/Tracking Tag**		**$300.00 (see min. requirement)**
		305-00207	Lowry 4x1 Direct Thermal Paper RFID Label w/Alien Squiggle Higgs 3 inlay; 2000 Labels/Roll, (minimum order 1 roll /$300 per roll)		
			FOB: Destination		
0015AF	**Omni ID**	**PRF2-0015AF**	**Office/Asset Tag**		**$1.43**
		Omni-ID Prox NG	Omni ID Prox NG		
			FOB: Destination		
0015 AG	**Omni ID**	**PRF2-0015AG**	**Medium Range Office/Asset Tag**		**$394.00 (see min. requirement)**
		Omni-ID Flex	Omni-ID Flex Label Tag - Mid range on-metal passive RFID tag. Standard film adhesive ($3.94 per tag / minimum order of 100 tags = $394)		
			FOB: Destination		
	Passive RFID – Software				
SLIN	**MFG**	**PART NO**	**Product Description and Ancillary Items**	**Warranty**	**Firm Fixed Unit Price**
0017AA	**Globe- Ranger**	**PRF2-0017AA**	**Application Development Software (includes Middleware)**	3 year License / Updates / Maintenance and Warranty	**$323.31**
			iMotion Software per Device Development License for development use only, Model Number PFIM-ES-DVC-DL		
			FOB: Destination		
0017AB	**Globe- Ranger**	**PRF2-0017AB**	**Special Software Development tool kits/utility Libraries**	3 year License / Updates / Maintenance and Warranty	**$10,487.12**
			Federal Solution Accelerator per Server, Model Numbers SA-FDRL-SVRPL, SA-FDRL-SVR-MT3		
			FOB: Destination		
0017AC	**Globe- Ranger**	**PRF2-0017AC**	**Development Software and Utilities Runtime License (includes Middleware)**	3 year License / Updates / Maintenance and Warranty	**$1,148.87**
			iMotion Perpetual per Device License, Model Numbers PF-IM-ES-DVC-PL + PF-IM-DVC-MT3		
			FOB: Destination		
0017AD	**Globe- Ranger**	**PRF2-0017AD**	**Asset Tracking single Server Software**	3 year License / Updates / Maintenance and	**$82,458.31**

				Warranty	
			GlobeRanger GR-AWARE Asset Tracking Software, single SERVER License, v2.7, CA-AW-GP-SVR-PL with **3** years Technical Support and Software Corrective Content and Software Maintenance (includes iMotion Platform v5.5 Server License		
			FOB Destination		
0017AE	**Globe- Ranger**	**PRF2-0017AE**	**Asset Tracking per Device Software (required for each device attached to Server Software)**	3 year License / Updates / Maintenance and Warranty	**$824.58**
			GlobeRanger GR-AWARE Asset Tracking Software, per DEVICE License, (required for each device attached to the SERVER software) v2.7, CA-AW-GP-DVC-PL with **3** years Technical Support, Software Corrective Content and Software Maintenance. Includes iMotion Platform v5.5 DEVICE License		
			FOB Destination		
0017AF	**Globe- Ranger**	**PRF2-0017AF**	**Asset Tracking single Server Software**		**$87,003.25**
			GlobeRanger GR-AWARE Asset Tracking Software, single SERVER License, v2.7, CA-AW-GP-SVR-PL with **4** years Technical Support and Software Corrective Content and Software Maintenance (includes iMotion Platform v5.5 Server License		
			FOB Destination		
0017AG	**Globe- Ranger**	**PRF2-0017AG**	**Asset Tracking per Device Software (required for each device attached to Server Software)**	3 year License / Updates / Maintenance and Warranty	**$870.04**
			GlobeRanger GR-AWARE Asset Tracking Software, per DEVICE License, (required for each device attached to the SERVER software) v2.7, CA-AW-GP-DVC-PL with **4** years Technical Support, Software Corrective Content and Software Maintenance. Includes iMotion Platform v5.5 DEVICE License		
			FOB Destination		
0017AH	**Globe- Ranger**	**PRF2-0017AH**	**Asset Tracking single Server Software**	**3 year License / Updates / Maintenance and Warranty**	**$90,898.92**
			GlobeRanger GR-AWARE Asset Tracking Software, single SERVER License, v2.7, CA-AW-GP-SVR-PL with **5** years Technical Support and Software		

			Corrective Content and Software Maintenance (includes iMotion Platform v5.5 Server License		
			FOB Destination		
0017AI	**Globe- Ranger**	**PRF2-0017AI**	**Asset Tracking per Device Software (required for each device attached to Server Software)**	3 year License / Updates / Maintenance and Warranty	**$908.99**
			GlobeRanger GR-AWARE Asset Tracking Software, per DEVICE License, (required for each device attached to the SERVER software) v2.7, CA-AW-GP-DVC-PL with **5** years Technical Support, Software Corrective Content and Software Maintenance. Includes iMotion Platform v5.5 DEVICE License		
			FOB Destination		
0017AH	WSA Corp	SMARTRACK RFID	SMARTRACK Arms Room RFID (SW Only) per **PC lifetime** license/updates/maintenance and Warranty coverage for the purchased version of the software		$ 17,777.85
0017AI	WSA Corp	SMARTRACK RFID SS	SMARTRACK Server (SW only) per **server lifetime** license/updates/maintenance and Warranty coverage for the purchased version of the software		$23,703.80
			FOB Destination		
Expedited Delivery				**3-YR Base:** (20 MAR 2013 - 19 MAR 2016)	
SLIN			**Item Description**		Firm Fixed Unit Price
0019			Expedited Delivery	Negotiated at Task Order Level	
Technical Engineering Services (TES)				**3-YR Base:** (20 MAR 2013 - 19 MAR 2016)	
SLIN			**Item Description**		Firm Fixed Unit Price
0020			**TES Task Order Projects** Individual CLIN(s) to be assigned at Task Order		
0021			Incidental Materials (Cost Reimbursable)	Negotiated at Task Order Level	
0023			Labor Categories		Firm Fixed Per Hour
0023 AA			Project Manager		$119.07
0023 AB			Senior Information Systems Engineer		$50.41
0023 AC			Senior Programmer		$107.55
0023 AD			Systems Analyst		$84.10
0023 AE			Software Systems Designer		$35.57
0023 AF			Programmer / Analyst		$38.06
0023 AG			Junior Programmer		$30.62
0023 AH			Systems Engineer		$45.34
0023 AJ			Data Comm / Network Specialist		$69.30
0023 AK			RF Technical Radio Specialist		$89.34
0023 AL			Senior Systems Engineer		$142.29
0023 AM			Senior Software Systems Engineer		$49.88
0023 AN			Senior Field Engineer		$79.13
0023 AP			Technical Writer		$51.63

0027			Travel (Cost Reimbursable)	Negotiated at Task Order Level	
			Contract Manpower Reporting (CMR)		
0028			Contract Manpower Reporting (CMR)	Not Separately Priced (NSP)	
	OPTION PERIOD(s) Maintenance Support (Mail-In/Carry-In/On-Call)			**Option - Year 1 20 Mar 2016 - 19 Mar 2017 (to be exercised)**	**Option - Year 2 20 Mar 2017 - 19 Mar 2018 (to be exercised)**
SLIN			**Item Description**		
			Contract Manpower Reporting (CMR)		
0029			Contract Manpower Reporting (CMR) - Option Period 1	Not Separately Priced (NSP)	
0030			Contract Manpower Reporting (CMR) - Option Period 2		Not Separately Priced (NSP)
			pRFID - Fixed Reader		
0031 AA			Per Incident (CONUS/OCONUS)	$545.85	$545.79
0031 AB			On-Call (CONUS/OCONUS)	$545.85	$545.79
			pRFID - Fixed Reader (Vehicle Mount)		
0033 AA			Per Incident (CONUS/OCONUS)	$545.85	$545.79
0033 AB			On-Call (CONUS/OCONUS)	$545.85	$545.79
			pRFID -Smart Table		
0035 AA			Per Incident (CONUS/OCONUS)	$545.85	$545.79
0035 AB			On-Call (CONUS/OCONUS)	$545.85	$545.79
			pRFID - Hand Held Reader		
0037 AA			Per Incident (CONUS/OCONUS)	$545.85	$545.79
0037 AB			On-Call (CONUS/OCONUS)	$545.85	$545.79
			pRFID - Printer		
0039 AA			Per Incident (CONUS/OCONUS)	$545.85	$545.79
0039 AB			On-Call (CONUS/OCONUS)	$545.85	$545.79

11. APPENDIX A: SLIN 0001 PRFID FIXED READER

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

Product Profile

IF2

Network Reader

- Advanced performance in a compact and cost-effective design
- Easily deployed and managed on common networks
- Low cost per read point for superior ROI
- Choice of Power over Ethernet lowers cost of installation
- Directly monitors and controls peripherals without extra equipment
- Factory configurable to operate in world regions supporting FCC or ETSI frequency bands

The Intermec IF2 is a compact, cost-effective network reader designed to support diverse RFID applications in both enterprise and industrial environments that require a scalable RFID system with a low cost per read point.

The IF2 is based on an Intermec-designed radio frequency (RF) platform that offers best-in-class read performance and includes support for Intermec's exclusive Advanced RFID Extensions (ARX), helping customers achieve a new level of visibility to the identification of RFID tags for greater accuracy of reading tags of interest over readers utilizing less-versatile commodity chipsets.

Packaged in a small and lightweight, yet durable enclosure, the IF2 is suited for nearly any environment, including industrial warehouse and manufacturing operations and enterprise environments for asset and inventory management applications.

Reduces System and Deployment Costs for Large and Small Installations

With a focus on keeping the cost of ancillary equipment and installation low, the IF2 Network Reader includes features that reduce the costs and complexity of the overall solution.

Not only does the low-profile enclosure with integrated mounting slots allow the IF2 to be easily installed in virtually any environment, the IF2 also supports Power over Ethernet (PoE) for scalable deployments without the cost of adding electrical drops where AC line power is not available or practical. An optional DC converter is available to support conventional wall power. Either power method supports the full RF output power capability of the IF2 (up to 30 dBm).

Because the general purpose input/output (GPIO) circuitry can be powered directly through either PoE or the DC power converter, the IF2 allows for direct monitoring and controlling of peripherals such as presence detectors and signal lights without requiring extra devices and power supplies to facilitate the connection.

Further reducing installation and equipment costs, the IF2's four antenna ports can be configured to transmit in either mono- or bi-static mode, increasing the flexibility of the system to achieve the best results for the application and environment. A variety of antennas from Intermec's extensive product line supports diverse applications, versus integrated antenna readers that include one type of antenna and limit the flexibility of applications and deployment.

Intermec

Easy to Use and Manage

The IF2 supports standard network device protocols, including auto-discovery and network service protocols, enabling seamless integration with common network infrastructures.

Supporting the standards-based LLRP application interface, the IF2 can quickly integrate with business solutions such as IBM® WebSphere® RFID and Microsoft® BizTalk® RFID, providing a scalable standardized platform for the development, deployment, and management of RFID solutions. The IF2 also supports Intermec's easy to use Basic Reader Interface (BRI), enabling Intermec customers and partners to quickly and seamlessly include the IF2 in their solutions.

The IF2 comes factory-loaded with the Intermec SmartSystems™ client at no extra charge. Intermec SmartSystems Foundation allows administrators to change device settings, send firmware upgrades, update software applications, and execute other changes on multiple devices directly from a centralized console to save time and cost for deploying, configuring, and maintaining the Intermec hardware.

Intermec's Advanced Services can provide process analysis, site analysis, installation and an 18-month guarantee of system performance.

In support of global operations, the IF2 is certified in regions across the globe and is factory configured to operate in the corresponding RFID frequency band.

General Description
The IF2 is a compact, cost-effective network reader designed to support diverse passive UHF RFID applications in both enterprise and industrial environments. The IF2 supports Power over Ethernet, four mono- or bi-static RF ports, built-in powered general purpose input output (GPIO) control, and both standards-based LLRP and Intermec's easy to use Basic Radio Interface (BRI) application interfaces, enabling scalable low-cost deployments for improved return on investment (ROI). The IF2 is packaged in a durable enclosure for nearly any environment and is factory configured to operate in regions across the globe.

Physical Characteristics
Length: 18.85 cm (7.42 in)
Length w/splashguard: 19.9 cm (7.87 in)
Width: 16.31 cm (6.42 in)
Height: 4.32 cm (1.70 in)
Weight: 1.0 kg (2.2 lbs)
LED Status Indicators: RFID service, power, PoE, Ethernet, tag detection, and antenna port connection status

Environmental
Operating Temperature: -20 to 50°C (-4 to 122°F)
Storage Temperature: -30 to 70°C (-22 to 158°F)
Relative Humidity: 5% to 95% (non-condensing)
Enclosure: IP53 sealing
Die cast magnesium base, Lexan plastic cover

Connectivity
Communications: 10/100 BaseT Ethernet
RS-232, USB for configuration
Input Power: PoE (802.3at compliant)
DC power input (12 VDC +/-5%, 30W), sealed/locking connection. Requires optional Intermec 100/240 VAC converter.

General Purpose
Input/Output (GPIO): Four input (0-40 VDC) and four output (0-48 VDC, 0.25 amp) circuits, powered via PoE or DC input (500 mA, 12 VDC)

RF Characteristics
Antenna Connections: Four reverse-polarity (RP) TNC ports configurable for mono- or bi- static operation. Antenna fault detection and auto tuning for best performance
Output Power: 1 to 30 dBm, configurable in 1 dB steps (calibrated above 9 dBm)
Frequency Ranges: FCC (902-928 MHz) and ETSI (865-868 MHz), factory configured

Software Platform
Passive UHF Tag Protocols:
ISO 18000-6B
ISO 18000-6C
EPCglobal UHF Class 1 Gen 2
Tag Features:
NXP G2X, Impinj Monza 4QT extensions
High memory tags (Fujitsu, Tego, ATA)
Host Application Protocols:
EPCglobal LLRP
Intermec Advanced RFID Extensions (ARX)
Intermec Basic Reader Interface (BRI)
Intermec Developer Library (IDL) resource kit for BRI (Java, C# .NET)
Management and Configuration:
Bonjour
Universal Plug and Play (UPnP)
Intermec SmartSystems client
Intermec Web Services and Web Configuration Interface
Network Protocols:
HTTP/HTTPS Web Server
IPv4, IPv6
DHCP, DNS, NTP, Syslog

Security
FIPS 140-2 compliance for HTTPS, LLRP-secure, and Web Services (DCWS)-secure
RADIUS client support
SSL Certificate support

Accessories
Intermec approved antennas, antenna cables

Regulatory Approvals and Compliance
Model: 1009FF01
Safety: IEC/UL 60950-1
EMC: Class B – FCC/ICES/EN

Intermec Global Services Support
www.intermec.com --> Support --> Knowledge Central
Telephone support available in the USA & Canada (+1-800-755-5505). Outside of this area, contact your local representative.

Restrictions on Use
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North America Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America Headquarters Office
Brazil
Phone: +55 11 3711-6776
Fax: +55 11 5502-6780

Europe/Middle East & Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799

12. APPENDIX B: SLIN 0001 CIRCULAR POLARIZED ANTENNA

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

Product profile

IA33G

Circular Polarized
Panel Antenna
Intermec part number
805-654-001

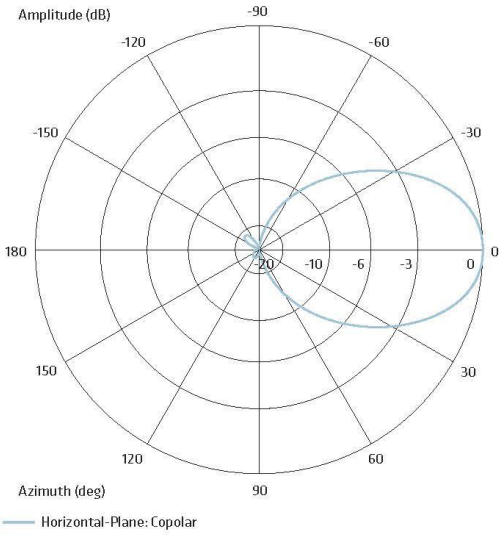
The IA33G antenna is a right-hand circular polarized panel antenna appropriate for use in indoor, FCC regulated environments. It can be used to support stationary RFID applications requiring medium to long read range.

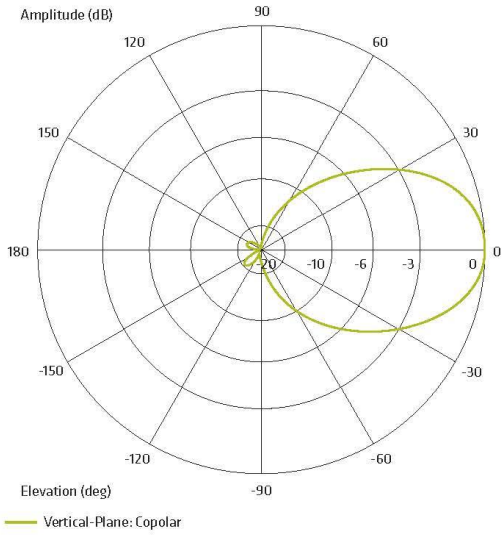
Electrical Properties
Frequency range: 902 - 928 MHz
Impedance: 50 Ω
VSWR: max. 1.5
Polarization: circular, right
Gain: 8.5 dBi
3 dB beamwidth horizontal: 63°
3 dB beamwidth vertical: 63°
Downtilt: 0°
Front to back ratio: max. -18 dB
Max. input power: 6 W
Sidelobe level: max. -16 dB
Axial ratio level: max. 4 dB

Mechanical Properties
Radome Material: Thermoplastic 2002/95/EC (RoHS) compliant
Connector: Reverse polarized N female
Dimensions: 12.01" x 12.01" x 0.98" (305 x 305 x 25 mm)
Weight: 2.65 lbs. (1.2 kg)
Temperature range: - 55°C to + 71°C per IEC 68
Water tightness: IP 54
Mounting Hardware: Use with bracket 805-653-001

Intermec

Radiation Patterns:





North America
Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America
Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America
Headquarters Office
Brazil
Phone: +55 11 5502.6770
Fax: +55 11 5502.6780

Europe/Middle East &
Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific
Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
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Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
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Toll Free NA: (800) 755-5505
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Product profile

IA33F

CIRCULAR POLARIZED
PANEL ANTENNA
Intermec part number
805-656-001

The IA33F antenna is a right-hand circular polarized panel antenna appropriate for use in indoor, ETSI regulated environments. It can be used to support stationary RFID applications requiring medium to long read range.

Electrical Properties

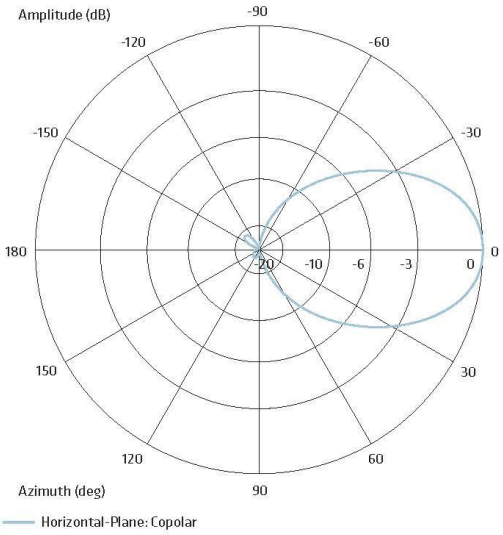
Frequency range: 865 - 870 MHz
Impedance: 50 Ω
VSWR: max. 1.5
Polarization: circular, right
Gain: 8.5 dBi
3 dB beamwidth horizontal: 63°
3 dB beamwidth vertical: 65°
Downtilt: 0°
Front to back ratio: max. -18 dB
Max. input power: 6 W
Sidelobe level: max. -16 dB
Axial ratio level: max. 2 dB

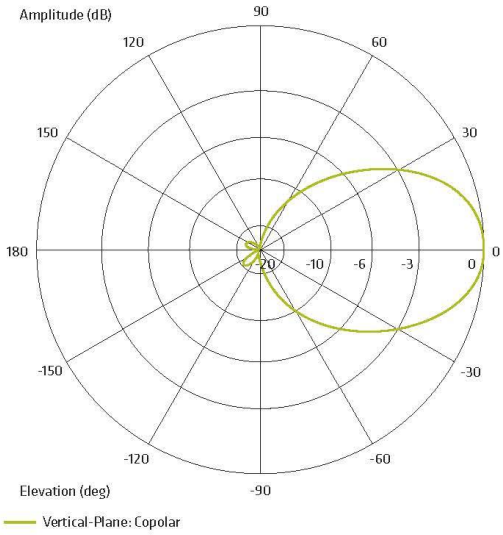
Mechanical Properties

Radome Material: Thermoplastic
2002/95/EC (RoHS) compliant
Connector: Reverse polarized N female
Dimensions: 12.01" x 12.01" x 0.98"
(305 x 305 x 25 mm)
Weight: 2.65 lbs. (1.2 kg)
Temperature range: - 55°C to + 71°C
per IEC 68
Water tightness: IP 54
Mounting Hardware: Use with
bracket 805-653-001

Intermec

Radiation Patterns:





North America
Corporate Headquarters
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Phone: (425) 348-2600
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Fax: +55 11 5502.6780

Europe/Middle East &
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Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific
Headquarters Office
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Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
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Freephone ROW:
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OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service
and Support
Toll Free NA: (800) 755-5505
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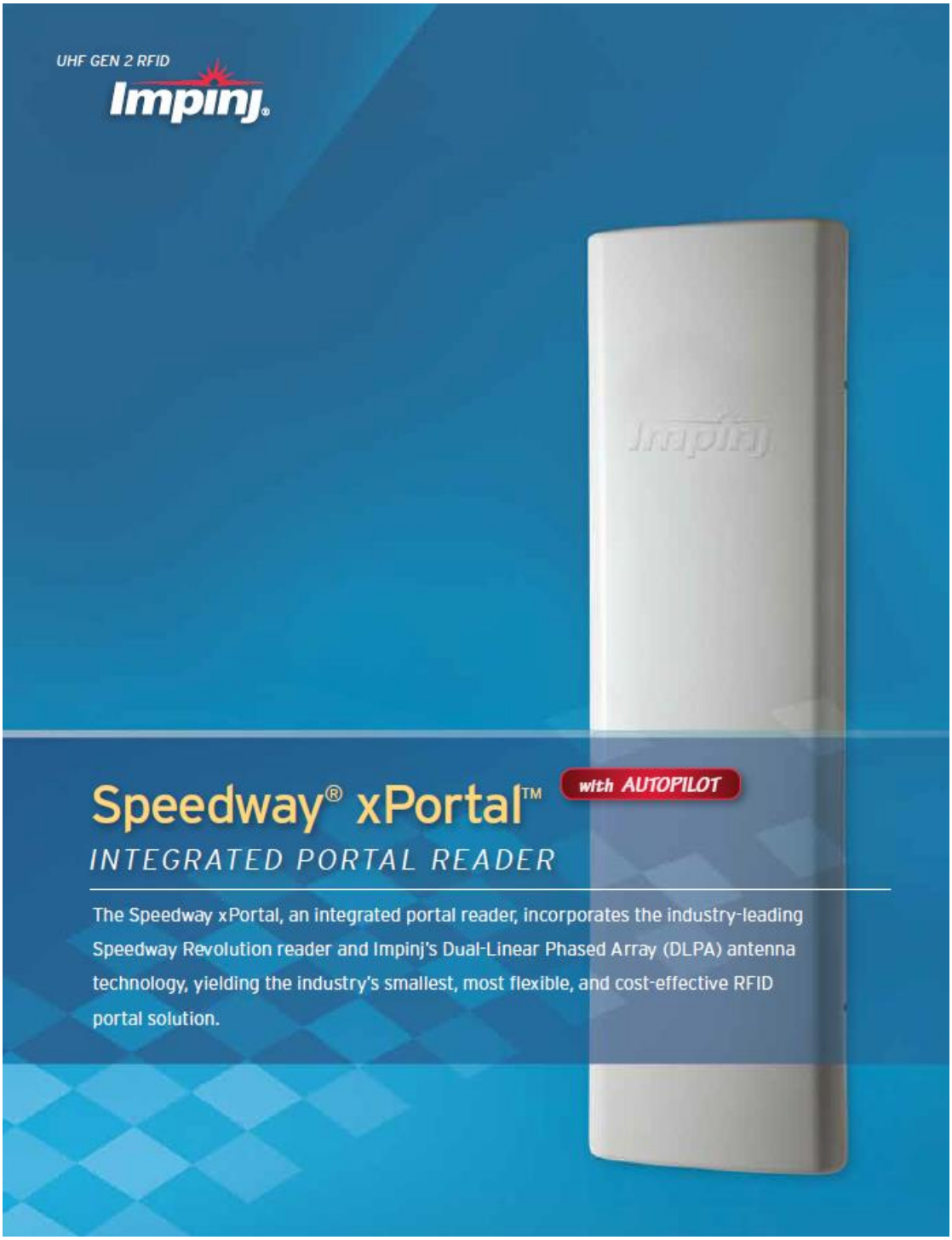
13.APPENDIX B: SLIN 0001 IMPINJ XPORTAL

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.



Groundbreaking Portal Form Factor

Compact, flexible, high-performance integrated portal reader

Impinj's Speedway® xPortal™ solves the size and mounting limitations of traditional portals with a light-weight, low-profile unit that is as attractive as it is effective. Measuring approximately 30.5 x 8.75 x 2 in (77.5 x 22.2 x 5 cm) and weighing less than 6.5 lbs (3 kg), its compact form is unobtrusive, streamlined, and ultimately flexible, yet delivers better performance than larger, more costly industrial-scale portals.

Designed for retail, office, hospital, and other indoor environments, the Speedway xPortal reader is ideal for monitoring tagged items, pallets, equipment, files, or people passing through doorways, hallways, or other zonal coverage areas.

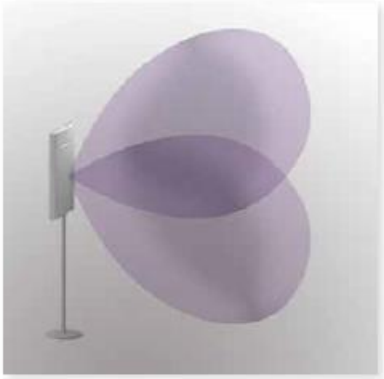
The Speedway xPortal, an integrated portal reader, incorporates the industry-leading Speedway Revolution architecture and Impinj's DLPA antenna technology.

Superior performance in the most demanding applications

Powered by the Speedway Revolution reader with Impinj's patented Autopilot™ technology, the Speedway xPortal reader continuously monitors the environment and RFID tag traffic to automatically and dynamically adapt its operating parameters to yield the best, most reliable performance. No longer do you need an RF engineer to install and configure your readers. Nor do you need to "re-tune" the reader when the environment changes—the Speedway xPortal manages all these concerns automatically.

Total zone coverage

The Speedway xPortal reader integrates high-performance Impinj-designed Dual-Linear Phased Array (DLPA) antenna technology with beam switching and polarization attributes that are dynamically managed by the reader. The system's DLPA antenna configuration provides broad coverage of the read zone, as the elements continuously alternate between vertical and horizontal polarizations, delivering full omni-directional power with greater consistency and intensity than circularly-polarized antennas. Harnessing the Autopilot capability, the Speedway xPortal senses exactly where tags appear in the field, automatically optimizing the read zone for the best, most efficient level of performance. And the Speedway xPortal reader's Low Duty Cycle function conserves energy while also eliminating unnecessary RF noise by limiting operation to only times when tags are detected within the field of view.



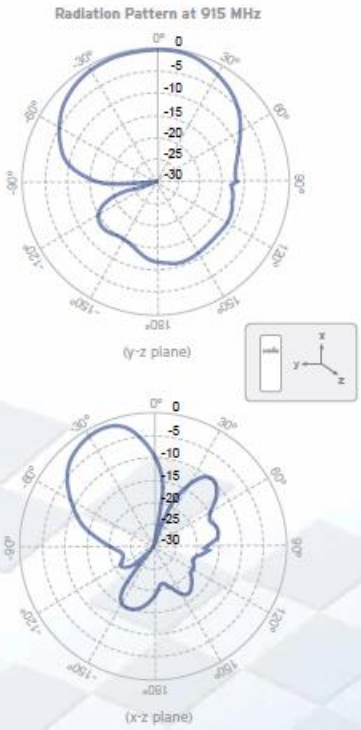
The Speedway xPortal DLPA antenna configuration provides full omni-directional power and zone coverage.

Unprecedented ease of deployment

Not only is the Speedway xPortal a high-performance RFID solution, it's also a practical one. With multiple mounting options to meet real world deployment challenges, the Speedway xPortal chassis incorporates keyhole slots and clearance holes, has VESA compliant mounting patterns, and accommodates gimbal brackets to enable a myriad of mounting possibilities. Fully enclosed cable management clips and conduit knockouts also help maintain a tidy appearance. In short, the Speedway xPortal can flank, pivot, stand-off, or mount overhead—accommodating just about anything your space requires—and look great doing it. The unit's clean, attractive appearance complements the look of any installation environment.

The Speedway xPortal's Power over Ethernet (PoE) connectivity simplifies deployment, eliminating the need for AC outlet installation at read points, and saving considerable energy in the process. In fact, owing to its remarkably low power consumption, the Speedway xPortal reader's energy costs are 75% lower than those of competing readers. PoE also provides for increased system availability via network infrastructure.

The Speedway xPortal combines Impinj technology, superior design, and proven components to deliver unmatched RFID system performance, intelligence, flexibility, and reliability. It is an excellent example of how Impinj is simply doing things better, solving the important challenges, and leading with the industry's most robust, innovative, and best-performing RFID systems.



Speedway® xPortal™ Reader At A Glance

The Speedway xPortal, a high-performance, integrated portal reader, incorporates the industry-leading Speedway Revolution architecture and Impinj Dual-Linear Phased Array (DLPA) antenna technology.

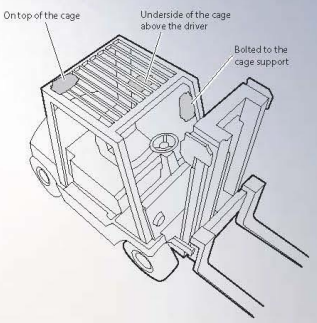
PRODUCT DETAILS	SPEEDWAY R640
Air Interface Protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Supported Regions or Geographies	• US, Canada, and other regions following US FCC Part 15 regulations (902-928 MHz) • Europe and other regions following ETSI EN 302 208 v1.2.1 without LBT regulations (865-868 MHz) • More regions available—check www.impinj.com for the latest information
Antennas	Dual-Linear Phased Array (DLPA) antenna technology
Radiated Power	FCC 4W EIRP, ETSI 2W ERP
HPBW (x-z plane)	60° +/- 3° (3 dB beam width)
HPBW (y-z plane)	80° +/- 3° (3 dB beam width)
Radome	High impact strength, UV, chemical and cleaning solution resistant
Transmit Power	FCC +10 to +28.5 dBm, ETSI +10 to +27.5 dBM
Max Receive Sensitivity	-82 dBm
Application Interface	EPCglobal Low Level Reader Protocol (LLRP) v1.0.1
Network Connectivity	10/100BASE-T auto-negotiate (full/half) with auto-sensing MDI/MDX for auto-crossover (RJ-45)
IP Address Configuration	DHCP, Static, or Link Local Addressing (LLA) with Multicast DNS (mDNS)
Time Synchronization	Network Time Protocol (NTP)
Management Interfaces	• Impinj Web Management UI • Impinj RShell Management Console using serial management console port, telnet or SSH • SNMPv2 MIBII • EPCglobal Reader Management v1.0.1 • Syslog
Reliable Firmware Upgrade	• Dual image partitions enable smooth transition to new firmware while the reader is still operating • Scalable upgrade mechanism enables simultaneous scheduled upgrades of multiple readers • USB Flash Drive • Impinj Web Management UI
Power Sources	• Power over Ethernet (PoE) IEEE 802.3af • +24V +/- 5% via external universal power supply with locking connector—sold separately
Environmental Sealing	IEC IP52
Operating Temperature	-20 ºC to +50 ºC
Humidity	5% to 95%, non-condensing
Dimensions (H x W x D)	30.5 x 8.75 x 2 in (77.5 x 22.2 x 5 cm)
Weight	6.5 lbs (3 kg)
Mounting Options	• Keyhole slots, clearance holes, and integrated threaded fasteners (¼-20 X ¼") • VESA MIS-D, 100/75, C (M4 X 7 mm thread depth) • Conduit knockouts for easy termination of conduit • Pass-through knockouts on back for data and power cabling
RoHS	Compliant to European Union directive 2002/95/EC

Impinj, Inc. 701 N. 34th Street, Suite 300 Seattle, WA 98103 www.impinj.com
rfid_info@impinj.com Tel: 206.517.5300 Fax: 206.517.5262

14. APPENDIX C: SLIN 0003 VEHICLE MOUNT PRFID READER

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

Product profile



IV7

Vehicle Mount RFID Reader

- First RFID reader specifically created for mobile mount applications
- Supports multiple air interfaces including ISO, Gen 2 and Class 1
- Rugged cast aluminum alloy housing, sealed to IP65
- Designed for serial attachment to Intermec's CV60 vehicle mount computer
- General purpose inputs/outputs

RFID has always delivered the twin conveniences of hands-free scanning with little or no human intervention. Now, Intermec has taken that to the next level by adding the convenience of mobility with the new IV7 Intellitag® Vehicle Mount RFID reader. The IV7 joins an award winning family of Intellitag readers that include several handheld and fixed mount form factors.

As Intermec's first packaged forklift-mounted RFID reader system, the IV7 is designed for serial attachment to the Intermec® CV60 vehicle mount computer. Both are built to withstand the rigors of harsh, industrial environments and are sealed to IP65 ratings. The CV60, acting as the local host for the IV7, provides network management and security. The built-in DC-DC converter handles the noisy input power environment.

RFID standards are continuing to evolve, which requires manufacturers and retailers to have multi-protocol reading capability if they are implementing RFID in an open supply chain. When fully equipped, the IV7 can read multiple air interface protocols, even in mixed populations of tags, including EPC UHF Generation 2 (Gen 2), ISO 18000 6-b and EPC Class 1.

While portal mounted readers are capable of capturing pallet data and some carton data, the tagged items must be brought to the reader. Enterprises often need the flexibility to read RFID tags in certain and not-so-certain locations which may not be near the location of a fixed reader. The Intellitag IV7 not only delivers the flexibility of "read where you need," but also a cost advantage over portal reader systems wherever the number of dock doors is significantly larger than the number of fork trucks.

Commercial and U.S. government supply chains will find the IV7 ideal for pick and put away applications. The CV60 can command the IV7, equipped with a location tag-sensing antenna, to scan for RFID tags when a pallet is picked up. The IV7 captures not only the location of the pallet pick up, but also through what doorway it passed, the path the forklift traveled and where the pallet will be placed.

The wireless capability of the CV60 combined with the snappy reads of the IV7 mean that warehouse management systems are automatically updated with location status as the truck moves through tag-equipped zones, as well as with shelf location data when the pallet is dropped off or retrieved.

The IV7's cast aluminum housing has built-in cable strain relief features, and with pre-drilled holes in the base plate, is designed for either U-bolt or flexible strap attachment to many makes of fork trucks. The IV7 can be mounted in any position on the vehicle within 3.5 m (10 ft.) of the

Intermec

vehicle battery or power source such as a terminal strip. The communication to the CV60 is via RS232 cable and connection.

Physical Description
The IV7 is a rugged RFID tag reader designed to be mounted on a vehicle for mobile use and operation in the same harsh environment as the CV60 vehicle mount computer.

Physical Characteristics of the Reader
Length: 34.3 cm (13.5")
Height: 9.5 cm (3.75")
Width: 23.6 cm (9.3")
Weight: 3.08 kg (6.8 lbs)

Standard Features
4 Antenna Connections
4 General Purpose Inputs/4 Outputs

Multiple Tag Environments
Capable of operation in mixed tag populations – ISO 18000-6b, EPC UHF Gen 2, and EPC Class 1. Configurable for mixed or single tag-type operation. Air interface software on IV7 is downloadable to add Gen 2 and Class 1 air interfaces and to "future-proof" the product as standards evolve and new features become available.

Power
Supply: Vehicle DC power 12 to 60V, 4.5 A maximum

Software
Application software for IV7 will reside on the "host" vehicle-mount computer, such as Intermec's CV60. Application program interface (API), Basic Reader Interface (BRI), demonstration and example applications software are included in the RFID Resource Kit, available through Intermec's Developers' Library.

Options
RFID Frequency Options
915 MHz (US FCC), 865 MHz (ETSI 302-208), and 869 MHz (ETSI 300-220)

Communications Interface
RS232

Accessories
Vehicle-mount DC power cable kit
Antennas, and antenna cables

Environment
Operating Temperature:
-25°C to 55°C (-13°F to 131°F)
Storage Temperature:
-30°C to 75°C (-22°F to 167°F)
Humidity (non-condensing): 10% to 90%
Shock and Vibration Protection: Withstands standard material handling vehicle environments. Meets or exceeds MIL STD 810F
Environmental Rating: IP65

Safety & Regulatory Approvals
ANS INCITS 256:1999 (R2001) - Parts 2, 3.1 & 4.2
ANSI MH10.8.4
ISO/IEC CD18000 Part 4
ISO/IEC WD18000 Part 6
- US/C UL Listed
- TÜV/GS Licensed
- CB Report for EN 60950, addressing all national deviations
- FCC OET Bulletin 65, FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields
- CENELEC EN50364/EN50357, European RF Exposure standard
- AS/NZS 2772.1, Australia/New Zealand RF Exposure standard
- Mexico NOM 19

Restrictions on Use
Some approvals and features may vary by country and may change without notice. Please check with your local Intermec sales office for further information.

Intermec reserves the right to make changes without notice to any products herein for any reason at any time, including but not limited to improving the reliability, form, fit, function or design. Please contact Intermec for current price list and availability.

North America Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

South America & Mexico Headquarters Office
Newport Beach, California
Phone: (949) 955-0785
Fax: (949) 756-8782

Europe/Middle East & Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific
Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll In NA: (425) 348-2726
Freephone ROW: 00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll In NA: (425) 356-1799

15. APPENDIX D: SLIN 0005 PRFID HANDHELD READERS (CN70)

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

Product profile

70 Series RFID

Ultra-Rugged Mobile Computers with Integrated Passive UHF Reader

CN70 RFID | CN70e RFID | CK70 RFID

The Intermec 70 Series RFID is the no compromise, next generation family of ultra-rugged mobile computers that combine passive UHF reading with purpose-built designs in one common platform.

- Fully integrated UHF RFID reader with no visible external antenna
- Optimal device size, weight and ruggedness
- Choice of three ergonomic designs, one common platform
- Full compatibility with printers, application software, communications, peripherals and accessories integrating and enabling a comprehensive enterprise business solution
- Exceptional battery life to eliminate downtime
- Advanced imaging technology for remarkable scanning snappiness, tolerance to motion and low light

The No-Compromise Solution is Now RFID Enabled

When it comes to accomplishing routine data collection tasks with greater efficiency and accuracy, the 70 Series RFID mobile computers are the answer. These devices combine RFID reading with a no-compromise design with best-in-class ruggedness, battery life, and ergonomics. Intelligently designed into three different form factors yet built on a singular core platform, the 70 Series RFID gives you the benefits of purpose-built devices with the reduced complexity and cost savings that come from adopting a common platform.

Because each 70 Series RFID model is designed for a specific application environment, we have surrounded it with a complete set of software, tools, services and training modules–both from us and from our PartnerNet ecosystem–to create the smoothest possible integration into your workflows.

The Simplicity of One

With its single platform approach, the 70 Series RFID is unique in its ability to deliver the benefits that come with one architecture, one software build, one set of peripherals and one charging system. It brings simplicity to the frequent tasks of software updates, training new employees, managing spares pools and charging devices.

Break the Cycle of Infrastructure Replacement

The 70 Series RFID is fully compatible with the entire suite of original 70 Series accessories, including the FlexDock modular docking system designed to meet your current and future charging and communication needs while maximizing the return on your accessory investment. For details on compatible accessories, see the 70 Series Accessory Guide.

More than Just Hardware

The three form factors comprising the 70 Series RFID include choices of radios, keypads, software and services providing you the flexibility to tailor a specific solution to meet the demands of your environment and the preferences and needs of your employees.

Intermec

Physical Characteristics
CN70 RFID
Dimensions with battery:
L x W x D: 16.9 x 8.0 x 3.4 cm (6.65 x 3.15 x 1.34 in)
Weight: 450 g (15.9 oz) with battery

CN70e RFID
Dimensions with battery:
L x W x D: 19.5 x 8.0 x 3.4 cm (7.66 x 3.15 x 1.34 in)
Weight: 491 g (17.3 oz) with battery

CK70 RFID
Dimensions with battery:
L x W x D: 23.7 x 8.0 x 4.3 cm (9.33 x 3.16 x 1.69 in)
Weight: 562 g (19 oz) with battery

Environmental
Operating Temperature: -20° C to +60° C* (-4F° F to +140° F)*
Storage Temperature: -30° C to +70° C (-22° F to +158° F)
Charging Temperature: +5° C to +35° C (41° F to 95° F)
Relative Humidity: Non-condensing, 95%
Rain & Dust Resistance: IP67
Drop Specification: 2.4m (8 ft.) to concrete per MIL-STD 810G; 1.8m (6 ft.) to concrete across operating temperature range per MIL-STD 810G; 2,000 (1m) tumbles per IEC 60068-2-32 specification
Electrostatic Discharge: +/- 15 kV air discharge, +/- 8 kV direct discharge
*Max Ambient: 50° C T6

Power
CK70 RFID
Battery Pack: 3.7 V, 5200 mAh; IEEE 1725 compliant, lithium ion, removable, rechargeable

CN70/CN70e RFID
Battery Pack: 3.7 V, 4000 mAh; IEEE 1725 compliant, lithium ion, removable, rechargeable

Operating System
Microsoft Windows Embedded Handheld built on Windows 6.5.3 technology, Getting started information: www.windowsmobile.com/getstarted

Multi-Engine Processor Architecture
Texas Instruments 1GHz OMAP3 multi-engine processor architecture

Memory and Storage
Memory: 512 MB RAM
ROM: 1 GB Flash
Customer-accessible micro-SD slot for removable memory cards up to 32 GB

Display
- 8.9 cm (3.5 in) Transmissive VGA
- 480 x 640 pixels
- High-Durability Touch Screen
- 65,536 (16bit RGB) Colors
- LED Backlight
- Ambient Light Sensor

Standard Communications
USB - Full Speed 2.0 Host®
USB - Full Speed 2.0 Client®
IrDA

Software Options
Device Management: Intermec SmartSystems™ support includes ScanNGo provisioning for use alone or with device management software from Intermec ISVs
Device Health Monitoring: Remote access requires SmartSystem Management option
Application Development: Intermec Developer Library www.intermec.com/dev

Apps & Components
VERDEX (imaging based data extraction and verification), Mobile Document Imaging (eMDI)

Data Management
Skynax® Mobile Communications

Integrated Radios
Wireless LAN: IEEE®802.11 a/b/g/n Dual Band WLAN
Security: WiFi Certified for WPA and WPA2, WAPI Certified
Authentication: 802.1x
Cisco Compatibility: CCXv4
Encryption: WEP (64 or 128 bit), AES, TKIP

Wireless PAN: Integrated Bluetooth® Class II, Version 2.1+EDR
Operating channels: 0 to 78 (2402-2480 MHz)
Data Rates: 1, 2, 3 Mbps
Antenna: Internal

UHF RFID
Frequency: 902-928 MHz (US) or 865-868 MHz (EU)
Standards: EPCglobal Class 1 Gen 2, ISO 18000-6C
Maximum Output Power: 30 dBm (1 W)
Antenna: Internal, orientation insensitive

Sensor Technology
Accelerometer: Embedded accelerometer enables automatic or application-specific features such as "screen rotation" or system suspend

Audio Support
Supports VoIP / Speech recognition / Push to talk applications; front and rear speakers; rear speaker has >80 dB at 40 cm (15.7 in); Front receiver and front panel microphone for handset audio communication and audio recording; Wireless Bluetooth headset support; Wired headset support via a snap on adapter.

Integrated Scanner
EA30 high performance motion tolerant 2D Imager; white LED illumination; red laser aimer optimized for all lighting conditions; 35 degree downward scan angle; capable of scanning all common 1D and 2D barcodes, 1D as small as 5 mil, PDF as small as 6.6 mil, DataMatrix as small as 7.5 mil, and standard UPC codes from distances up to 33 cm (13 in)

Integrated Camera Option
5 megapixel auto focus color camera with LED flash

Intermec Global Services Support
www.intermec.com --> Support --> Knowledge Central
Telephone support available in the USA & Canada (1-800-755-5505). Outside of this area, contact your local representative.

Maintain equipment with INControl managed services
Current listing of service locations can be found at: www.intermec.com --> Support --> Returns and Repairs --> Repair Locations

Accessories
FlexDock modular docking system, vehicle dock and holder, snap on adaptors, removable scan handle, magnetic stripe reader (see 70 Series Accessory Guide for complete listing).

Regulatory Approvals and Compliance
CN70 RFID: 1000CP01F9, 1000CP01F8
CN70e RFID: 1000CP02F9, 1000CP02F8
CK70 RFID: 1001CP01F9, 1001CP01F8
Safety: cULus (pending), DEMKO
EMC: Class B - FCC/ICES/EN
Radio: FCC, Industry Canada, CE (Europe), 34 countries in total
Environmental: EU Directives-WEEE; RoHS; Batteries & Accumulators; Packaging & Waste Packaging

Regulatory Approvals and Compliance for Non-Incendive Models
Specific non-incendive models in the 70 Series RFID family are suitable for use in the following Division 2 locations:
Safety: cULus (pending) - ISA/ANSI 12.12.01
Gases: Class I - Groups A, B, C, D
Dusts: Class II - Groups F, G
Fibers and Flyings: Class III
* Max Ambient: 50° C T6

Intermec SmartSystems™

North America Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America Headquarters Office
Brazil
Phone: +55 11 5502.6770
Fax: +55 11 5502.6780

Europe/Middle East & Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll In NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll In NA: (425) 356-1799

16. APPENDIX E: SLIN 0005 CAC AUTHENTICATION DEVICE

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

APRIVA READER

MITIGATING THE MOBILE WORKFORCE THREAT

Workforce mobility is a necessity and reality in today's global economy and theaters of enterprise operation. With this mobility comes an increased security threat including unauthorized use of mobile communications devices to gain access to sensitive data and networks. Authentication of a user's identity is imperative. The use of smart cards is a rapidly growing method to authenticate that a user is who they say they are.

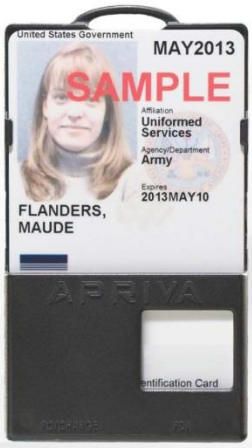
Smart cards (FIPS 201 compliant CAC, PIV, and PIV-I) are required by Homeland Security Presidential Directive 12 (HSPD-12) to be used to identify and authenticate users by all US government agencies and many private industries doing business with the government. Smart cards (ISO 7816 compliant) are also used around the globe for national identification, insurance cards, emergency medical records, driving credentials, and payment systems. Use of smart cards for mobile user identification and authentication requires a highly secure yet portable and easy to use smart card reader that connects to the mobile communications device.

The industry-leading Apriva Reader is a wearable, Bluetooth® and USB capable smart card reader that seamlessly operates with Android™, Blackberry® and Windows Mobile® devices. The Apriva Reader delivers unparalleled encryption technology significantly stronger than standard Bluetooth and device security. Sensitive user identification, biometrics, certificates and records can be read from the smart card with maximum accuracy and confidence.

Federal, state and local agencies as well as private enterprise in the health care, legal, financial, infrastructure and logistics industries can rely on the Apriva Reader to meet the challenges of mitigating the mobile workforce security threat. The Apriva Reader can be used as a standalone device or as a key component in the end-to-end Secure Communication Suite provided by Apriva.

MISSION CRITICAL CUSTOMERS DEPEND ON APRIVA READER

- European Union countries depend on the Apriva Reader to securely access National ID cards for eTicketing applications
- U.S. Department of Defense Joint Automatic Identification Technology (J-AIT IV) program's exclusive provider of mobile *Bluetooth* smart card readers
- Logistics personnel use Apriva Reader to authenticate the identity of anyone scanning and signing for sensitive assets
- Government personnel are required to authenticate into their mobile devices to sign and encrypt emails
- Decision makers who are required to submit smart card certificates to access authenticated Web domains
- U.S. Defense personnel required to comply with DISA STIG checklist for authentication into their BlackBerry or Windows Mobile devices
- Military personnel tracking sensitive assets rely on Apriva Reader to verify the identity of anyone accessing scanners and backend database systems



SPECIFICATIONS

- Apriva Reader models BT200/BT200-T
- Height: 3.97"/100.8 mm
- Width: 2.2"/55.9 mm
- Depth: .69"/17.5 mm
- Weight: 2.6 oz./73.7 gm
- Operating Temperature: -22 to 140 F / -30 to 60 C
- Smart card insertion cycles: Greater than 200,000
- Standard: ISO 7816 & EMV 4.0 compliant [Class A (5.0 volts up 55 ma) compliant; Class B (3.0 volts, up 65 ma compliant]
- Supports all common access cards (CACs) and Personal Identification Verification FIPS 201 PIV smart cards
- Power Source: Rechargeable Internal 950 mAh lithium ion battery
- Charging: (USB charging: 2 hours from battery low indication)
- Standard PC/SC interface
- Universal drivers for wide range of Windows Mobile & BlackBerry devices
- FIPS-2 Level 3 Hardware Encryption Module for data and *Bluetooth* security
- DISA STIG checklist compliant (RIM BlackBerry and Microsoft Windows Mobile OS: Supporting AprivaMail and Microsoft Pocket Outlook, and Good Technology)
- Zero RF (radio frequency) emission when powered off
- One year warranty with 3 year option available

ABOUT APRIVA

Apriva leads the way in wireless payment processing and secure mobile communications. Our customers benefit from fully-managed, end-to-end, security solutions that incorporate hardware, software and network infrastructure, and management tools. That means businesses of all sizes and government agencies use Apriva technology to communicate with confidence — using the networks and devices they favor.

Apriva | 6900 East Camelback Road, Suite 750 | Scottsdale, AZ 85251 | P 877-277-0756 | F 480-421-1211 | apriva.com
Apriva ISS Sales 877-277-0756 | International +1-480-421-1210 | iss-sales@apriva.com

APRIVA

17. APPENDIX F: SLIN 0005 PRFID HANDHELD READERS (CN4)

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

The associated CLINs/SLINs are in "Reserve" status. The product(s) listed is no longer offered and/or available for purchase on this contract due to it being end of life. The item description provided is for reference, warranty, and maintenance purposes only. Should a replacement product be approved by the Government it will placed on this contract and available for ordering.

Product profile

CN4/ CN4e

Mobile Computer

- **3.5G wireless technology** supports simultaneous voice and data tasks improving worker productivity
- **Fully rugged** device and accessories perform despite bumps, knocks, dust and dirt (IP64 seal rating and 1.8m drop spec)
- **An extension to the successful CN3 Series**
- **Enhanced Mobile Document Imaging** captures full-page documents in field without the use of extra devices or services
- **Integrated GPS** enables unprecedented visibility into workers' routes
- **Industry standard platform ensures** devices will integrate quickly and easily
- **Full suite of Intermec Development Tools** reduces development costs and timelines
- **Medallion Complete service** provides protection against unbudgeted and rising repair costs

Intermec

With integrated 3.5G wireless technology, the fully rugged and feature-rich Intermec CN4 Series mobile computers enable enterprises operating in the most demanding environments to leverage the benefits of high bandwidth data collection and communication to achieve gains in worker productivity, improvements and expansion in their service offering, and reductions in overhead.

The CN4 Series are not only the most rugged devices in their class with IP64 sealing and a 1.8m (6 ft) drop spec, but also have field-proven, built-in software support for a broad range of compatible peripherals designed to serve a broad range of applications in the transportation, field service and direct-store-delivery environments.

In addition to 3.5G UMTS/HSPA and CDMA/EVDO rev A technology, as well as a complete set of accessories and application development tools, the CN4 Series also packs a powerful combination of radio technologies including integrated GPS, Cisco CCX compatible WiFi, and Bluetooth® enabling enterprises to deploy and dynamically manage the right resources to the right location and provide the intelligence that their mobile workers need to increase customer responsiveness, and reduce inventory and transportation costs.

The CN4 Series features an optional imaging application called Intermec Enhanced Mobile Document Imaging (eMDI) which gives mobile workers a fast and reliable way to convert paper documents into electronic files. eMDI streamlines back office operations and improves cash flow by reducing time-to-billing for services rendered because delivery confirmations can be imaged in the field and sent wirelessly to the home office. Your business gains real-time access to document images, via the enterprise system, which can be used to answer customer queries, issue invoices, and update records.

The CN4 Series optional color camera can be used as an event validation tool, enabling workers to document proof-of-service or vehicle inspection. The CN4 Series features a touch screen display and is available with an ultra-slim extended battery that provides easy-to-carry power to support a full shift.

Because the CN4 Series is an extension of the proven platform architecture of the popular Intermec CN3 Series, customers can rely on full compatibility between both the CN3 and CN4 Series, allowing for easy migration to 3.5G technologies.

The industry standard platform in the CN4 Series, which includes Microsoft Windows Mobile 6.1, ensures devices will integrate quickly and easily with existing systems. The comprehensive software toolkit, combined with a broad range of compatible peripherals, shortens time to deployment.

Intermec SmartSystems™ manages the CN4 Series to minimize your total cost of lifetime ownership. One-step provisioning allows you to quickly deploy the CN4 Series to your workforce to lower rollout costs. Remotely apply periodic system and software updates as well as configuration changes to the CN4 Series to keep costs associated with on-going system maintenance low, and to keep your computers performing in top condition.

North American wireless wide area network deployment can be fast and easy with Intermec Readicare℠ WWAN Activation and Provisioning Services. Intermec Medallion Support services are also available to help keep your mobile workforce in action worldwide.

Packed with road ready capabilities, the CN4 offers companies the opportunity to deploy into new areas of their businesses and realize increased return on their mobility investments.

Physical Characteristics
CN4 Dimensions with Standard Battery Pack: 173 x 81 x 28 mm (6.8 x 3.2 x 1.1 in)
CN4 Dimensions with Extended Battery Pack: 173 x 81 x 33 mm (6.8 x 3.2 x 1.3 in)
Weight: 397 - 454 g (14.0 oz - 16.0 oz)
CN4e Dimensions with Extended Battery Pack: 210 x 81 x 33 mm (8.3 x 3.2 x 1.3 in)
Weight: 510 - 567 g (18.0 oz - 20.0 oz)

Environmental
Operating Temp: -20°C to +60°C (-4°F to +140°F)
Storage Temp: -20°C to +70°C (-4° F to +158° F)
Relative Humidity: 95%
Rain & Dust Resistance: IP64
Drop Spec: 1.8 m (6') per MIL - STD 810G
Electrostatic Discharge: +/- 15 kVdc air discharge, +/- 8 kVdc contact discharge

Power
Standard Battery Pack: 3.7V, 2200 mAh, (8.1 Watt hour) Li-Ion (not available with CN4e model)
Extended Battery Pack: 3.7V, 4000 mAh, (14.8 Watt hour) Li-Ion

Operating System
Windows Mobile 6.1® with Internet Explorer 6
Getting started information located at www.windowsmobile.com/getstarted

Microprocessor
Marvel PXA270M, 520 MHz

Memory and Storage
RAM Memory: 128MB
Flash ROM: 256MB
Customer-accessible miniSD slot for removable memory cards

Display
89 mm (3.5 in) QVGA (240 x 320 pixel)
Transflective TFT-LCD touch screen, LED backlight

Standard Communications
USB 1.1 Host and Client; RS232 via vehicle dock or snap-on adapter; Ethernet via desktop single or quad dock or snap-on adapter; IrDA

Software
Device Management Options:
SmartSystems Foundation: Centralized support via PC; configures, updates and maintains single devices or entire populations; real-time via wired or wireless connection.
Third Party: SOTI MobiControl, Wavelink Avalanche™ and GATC Skynax with access to Intermec value added capabilities.
Intermec Developer Library (IDL): Integrates with leading development environments; supports device-specific features, bar code scanning, printing, communications. Supported by Intermec Connection Manager, iLaunch and Intermec Client Pack (Intermec Terminal Emulator and Intermec Browser) thin client applications.
Development Environments: Visual Studio 2005 and 2008, Eclipse, .NET Compact Framework
Browser Support: Internet Explorer Mobile 6, Intermec Browser (part of Intermec Client Pack)

Integrated Radio Options
Wireless WAN: GSM/GPRS/EDGE/UMTS/HSDPA or CDMA/1xRTT/EV-DO Rev A
UMTS Frequencies Supported - MHz: 850, 1900, 2100
GSM/GPRS Frequencies Supported - MHz: 850, 900, 1800, 1900
Technology Class GSM: 3.5G HSDPA
Max Speeds: Uplink - 384 Kbps; Downlink - 3.6 Mbps
Technology Class CDMA: 3.5G EV-DO Rev A
Max Speeds: Uplink - 1.8 Mbps; Downlink - 3.1 Mbps

Wireless LAN: IEEE® 802.11 b/g
Data rates: 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48 and 54 Mbps
Operating channels: 1 to 13 (2412-2472 MHz) and 14 (2484 MHz)
Regulatory compliance: As per IEEE® 802.11d
Cisco Compatible Extensions (CCX): v4 Compliant
Antenna: Internal
Security: WiFi Certified for WPA/WPA2 operation
Authentication: OPEN, SHARED-KEY, PEAP (MS-CHAPv2, GTC, MD5), EAP-TLS, EAP-FAST, EAP-TTLS (PAP, CHAP, MS-CHAP, MS-CHAPv2, PAP/Token Card, EAP with GTC)
Encryption: WEP (64 or 128 bit), AES, TKIP

Wireless PAN: Integrated Bluetooth® Class II, Ver 2.0 +EDR.
Operating channels: 0 to 78 (2402-2480 MHz)
Data Rates: 1, 2, 3 Mbps
Antenna: Internal

Global Positioning System
12 channel Integrated GPS; Supports Autonomous mode with extended ephemeris data; Supports assisted operation via WAN Carrier; Network independent; <3m accuracy

Audio Support
VoIP, Speech recognition, Microphone, Wireless Bluetooth headset support, Wired external speaker support via vehicle dock

Integrated Scanner Options
The EA11 imager provides a "laser-like" aimer and scanning performance optimized for scan intensive 1D, 2D, Composite and Postal Code applications, including smaller barcodes (down to 5 mil) and damaged barcodes. The EA21 1Mpxl (megapixel) area imager with laser framer and aiming supports omnidirectional scanning and decode of 1D, 2D, Composite and Postal codes, as well as Enhanced Mobile Document Imaging (optional Intermec software application).

Integrated Camera Option
2.0 megapixel color camera with LED flash

Keypad Options
CN4: QWERTY or Numeric backlit keypad
CN4e: Alphanumeric or numeric phone backlit keypad

Intermec Global Services Support
www.intermec.com --> Support --> Knowledge Central
Telephone support available in the USA & Canada (1-800-755-5505). Outside of this area, contact your local representative.
Medallion Maintenance contracts available at many locations world wide. Current listing of service locations can be found at: www.intermec.com --> Support --> Returns and Repairs --> Repair Locations

Readicare Activation and Provisioning Services
(available in North America only)
WWAN Carrier Provisioning, WWAN Carrier Activation, Software Configuration, Tagging, Operational Testing, Packing, Storage & Staging.
For additional details, go to: http://www.intermec.com/WWANActivationandProvisioning

Accessories
Single Dock, USB Host/Client (no modules), Single Dock, Ethernet Module, Single Dock, Modem Module, Quad Multi-dock, Ethernet, Quad Multi-dock, Charge Only, Quad External Battery Charger, Magnetic Stripe Reader, Snap-on, Ethernet Adapter, Snap-on, RS232/DEX Adapter, Snap-on, USB Host/Client Adapter, Snap-on, Audio Jack/Rugged Power Adapter, Snap-on, Auto Adapter, Vehicle Dock, Holsters

Regulatory Approvals/Compliance
Safety: cULus Listed, CDRH, D, CE, NOM
EMC: Class B - FCC/ICES/CE
Radio: FCC ID, Industry Canada TAC, CE0984, A-tick (AU), C-tick (NZ), NCC, OFTA, IDA
HAC: FCC
Others: HKSI, BSMI, ICASA, POSTEL, NTC, ETA, GOST, SIRIM, ANATEL, EU Directives –WEEE, RoHS, Batteries & Accumulators, Packaging & Waste Packaging

Hazardous Location Certified
UL Listing (United States and Canada)
Division 2, Class I, Groups A, B, C, D; T6
Division 2, Class II, Groups F; G T6
Division 2, Class III; T6

North America Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America Headquarters Office
Brazil
Phone: +55 11 5502.6770
Fax: +55 11 5502.6780

Europe/Middle East & Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799

Product profile

IP30

Handheld RFID Reader

- Easy, snap-on installation to Intermec mobile computers, featuring near/far area imaging and multiple network communication options
- Lightweight ergonomic design with choice of Bluetooth® or USB connection to the mobile computer
- Seamless application portability between Intermec fixed readers and IP30
- Optional non-incendive (NI) configurations
- Based on EPCglobal certified radio
- Available in multiple frequency bands for global operation

The Intermec IP30 add-on passive UHF RFID handle is a cost-effective, compact, EPCglobal-certified solution for adding mobile RFID read/write capability to Intermec's latest generation of mobile computers including the CN70/70e, CK70, CK71, CN4/4e, CN3/3e*, and CK3.

The modularity of the IP30 when combined with the RFID-readiness of the Intermec mobile computers, transforms into a RFID handheld in a snap. The IP30 supports both in-premise and in-field applications, such as warehouse operations, enterprise asset management, retail and enterprise inventory management, field service, and exception handling.

When combined with one of Intermec's powerful mobile computer products, the IP30 gives the user unmatched data collection and communication capabilities. And combining RFID with multiple network communication options in a single handheld unit enables pin-point location accuracy for real-time asset, source and service tracking.

When added to one of Intermec's latest 70 Series handheld computers, the IP30 gives users unprecedented versatility both inside and outside of the four walls through combined advanced data collection methods, GPS location association, and communication via multiple network radios, including the latest cellular technologies. In fact, the IP30 is the only long-range handheld RFID reader on the market that combines five wireless technologies in one integrated system: RFID, Wireless WAN, GPS, Wi-Fi, and Bluetooth. RFID reads can now be associated with time stamps and location coding to enhance supply chain visibility for applications like track and trace, point of origin, and field asset and inventory management.

When harsh and hazardous environments make RFID one of the only viable identification and data collection methods, the non-incendive (NI) rated version of the IP30, combined with an NI option of the 70 Series, CN4/CN4e, or CN3/CN3e mobile computer, provides a solution certified by Underwriters Laboratories (UL) for use in environments in the United States and Canada where gases, dusts, and fliers or fibers may be present.

Similar to Intermec's industry leading fixed and vehicle mount RFID readers, the IP30 has an EPCglobal certified radio that enables seamless application portability among all RFID applications using Intermec readers.

SmartSystems™ Foundation, standard on the Intermec mobile computers, provides a single, convenient console for quick set-up and configuration of all of the settings contained in the device. Administrators can change device settings, send firmware upgrades, update software applications, and execute other changes directly from the console to save time and cut costs.

Intermec

Intermec – Optimizing Enterprise Mobility
Consider Intermec Mobility Lifecycle Services (MLCS), a comprehensive suite that eases the burden and complexity of deploying, managing and supporting mobility across the enterprise. MLCS optimizes resources, increases competitive advantage and maximizes financial returns for your enterprise-scale mobility initiatives. MLCS provides customers with exceptional insight into their mobility initiatives through actionable reporting and consultative expertise, so that they can focus on proactive and strategic management of their business.

For your support plan needs, our Intermec Medallion® Service programs deliver the highest levels of productivity, device reliability, and uptime. With Medallion support, you can choose from the Complete, Select, and Standard programs to get the amount of coverage and protection you need for your light, medium, and heavy product handling solutions. Medallion Service is available in over 70 countries with global pricing and global standards of quality.

Find out more about Intermec's mobility lifecycle services solutions at http://www.intermec.com/services

Physical Description
The IP30 handheld reader incorporates the Intermec IM4 high-performance radio module as well as a linear polarized antenna for superior range. The IP30 supports a Bluetooth connection to all supported handheld computers and a USB connection to Intermec's CN4/CN4e CN3/CN3e* and CK3 mobile computers.

The IP30 meets ETSI and FCC standards and is factory configured to operate in many regions including USA, Mexico and Canada, EU, China, Taiwan, Thailand, Australia, New Zealand, Brazil, Hong Kong, Singapore, Philippines, and Malaysia.

Physical Characteristics
Weight without handheld computer:
430 g with battery (0.95 lbs)
Weight with CN3 or CN4: 860 g with battery (1.90 lbs)
Weight with CN70 and CK3: 880 g with battery (1.94 lbs)
Weight with CN70e: 921 g with battery (2.03 lbs)
Weight with CK70: 992 g with battery (2.19 lbs)
Weight with CK71: 1.01 kg with battery (2.24 lbs)

Environmental Specifications
Operating Temp: 0° C to 50° C (32° F to 122° F)
Storage Temp: -30° C to 70° C (-22° F to 158° F)
Humidity: 10 to 95% (non-condensing)
Enclosure: IP64 compliant
Shock: 30 G, 11 ms, half sine pulse (operating)
Vibration: Quasi Random Vibration 17.5G
RMS for 2 hours, each of three axis
Drop Survival: Withstands 4 foot drop (1.3m)
26 times to concrete
Non-incendive (NI) Option: Class I - Div. 2 Groups A, B, C, D; Class II - Div. 2 Groups F, G; Class III - Div 2. T6

Compatible Handheld Computers
CN70, CN70e, CK70, CK71, CN4, CN4e, CN3*, CN3e*, CK3

Communication Interface to Handheld Computer
Bluetooth and USB configurations (platform dependent)

Antenna Type
Linear polarized

Antenna Field
70-degree cone (approx.) measured from nose of device

Typical Read Range (tag dependent)
6.09 cm to 304.8 cm (0.2 ft. to 10 ft.)

Typical Write Range (tag dependent)
30.5 cm to 60.9 cm (1 ft. to 2 ft.)

Maximum Output Power
FCC: 30 dBm (26 dBm with CN4/CN4e); ETSI: 23 dBm

Indicator LEDs
Five indicator LEDs:
1. SmartSystems – Power/Ready to Work
2. Data Transfer to Host
3. RF on
4. Tag Read
5. Battery Status

Power
Removable Lithium-Ion battery pack (2400 mAh)

Accessories
External battery charger

RFID Frequency Ranges
865, 915, and 950 MHz bands supporting multiple regional configurations

Tag Air Interfaces
EPCglobal Class 1 Gen 2
ISO 18000-6c
ISO 18000-6b

Software
Demonstration software
Common API with Intermec's RFID reader portfolio
Support for Microsoft BizTalk RFID Mobile

* LAN-only version of CN3 mobile computers (CN3B and CN3F). Wireless WAN supported only with CN70/70e, CK70, and CN4/CN4e.

North America Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America Headquarters Office
Brazil
Phone: +55 11 3711-6776
Fax: +55 11 5502-6780

Europe/Middle East & Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799

18. APPENDIX G: SLIN 0007 PRFID SMART TABLE

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

SmartTable™

Elegance in RFID Design

Portable RFID Enabled Workspace

The RFIDGS SmartTable STHD series is a fully functional, fully enabled, **"Plug & Play"** platform which provides 72"' x 36", 30" x 48", or a special optional surgical instrument sized 36" x 24" of RFID-enabled workspace. The system is engineered to isolate the read field within the boundaries of table both above and around. This translates to accurate reads of tagged items placed on or above the SmartTable™. SmartTable products are ideally suited for receipt, shipping, healthcare, and kitting applications.

The 72"' x 36" STHD SmartTables™ are constructed of industrial-strength, extruded aluminum. Each unit is durable enough to withstand the toughest environments and is capable of supporting up to **800 lb.** loads. The SmartTable meets IP64 standards and has **adjustable legs** allowing users to level the unit virtually anywhere. With folding lockable legs the SmartTable™ provides **tool-less setup and configuration of table**. Further, an optional anti bacterial and anti-microbial polycarbonate top makes the table a great choice for healthcare applications.

The 30" x 48" STHD SmartTables™ mirror the larger 72" x 36" specifications with the exception of weight capacity, up to **300 lb.** loads using standard steel folding and adjustable legs, with a **standard polycarbonate top** for easy cleaning, and an additional **poly-fiber transport case**.

The surgical instrument smart table provides an exceptional option for use within the OR, and when combined with Visi-Trac for Healthcare software, **enables pre-op and post-op instrument inventory** for **instrument retention prevention**, as well as **supports physician preference card automation.**

Features

- **Rugged**
- **Portable**
- **Quick Setup**
- **Plug & Play**
- **Supports 800 lbs.**
- **Adjustable Legs**
- **Status Light Indicators**
- **Network Interfaced**

SmartTable™

Designed by RFID experts who understand your business needs

RFIDglobal SOLUTION

RFID Global Solution
1332 Londontown Blvd, Suite 108
Eldersburg, MD 21784
Tel: (866) RFID-123 (734-3123)

In Partnership with

TJMT, LLC

A SDVOSB Firm

SmartTable™

Elegance in RFID Design

Features, Benefits, Options

Adaptable
Units may be put back to back in environments where station based or serial assembly/dissasembly is required. Suitable for indoor and limited outdoor use (Unit is not NEMA rated).

Strong, Durable Construction
Made from the same industrial steel or aluminum.

Easy to Install
The SmartTable™ is designed to be installed by one-two people in a matter of minutes. Just fold out the legs, lock them into place stand up the table, plug in power and network and you are ready to go! It is that easy.

Innovative RFID Solution
Uniquely designed to keep the RFID read zone within the boundaries of the table ….no reads along the outside or below the table! Table read zone can be adjusted to read tags only a few inches above the table to a few feet above the table.

Optional Monitor, Arm Kit, and Rollers
Flat screen computer monitor with desktop mounting arm, and 1D/2D bar code scanner, as well as rollers that attach to legs are all optionally available.

Optional Polycarbonate Top
(Standard on STHD 3003-01X)
Optional anti-microbial, anti-bacteria scratch resistant, polycarbonate top (standard on surgical instrument smart table) is available for both STHD series 6' x 3' and 3' x 3' tables.

Physical Characteristics & Specifications

Composite Material: 6063 T5 extruded aluminum (72" x 36"), steel and composite frame (30" x 48"), or galvanized steel (surgical table) with industrial grade polycarbonate (option on STHD, standard on 30" x 48")

Dimensions:

72" x 36" STHD 3003-01
Frame: 36" D x 73" L x 28"-36" H (Adjustable)
Top: 34" x 72"
Poly Carb Top Option: **PC-06**—36.25" x 73.25"

30" x 48" Table STHD 3003-01X
Frame: 30" D x 48" L x 23-1/2" - 32-1/2"H " H (Adjustable)
Top: 30.5" x 48.5"
Poly Carb Top Standard

Surgical Table STST-1001
Frame: 36" L x 24" D x 36" H
Top: 36.25" x 24.25"

Input Power: 110/220V

Standards: Passive RFID
FCC Part 15 Approved
Freq: 902-928 MHz (US)
(supports EPC Class1, Gen 2)
Option: Freq: 862– 870MHz (ETSI)

Reader Options: Motorola, Alien, Impinj, or Intermec

Light Indicators: RED-YELLOW-GREEN
Green – Unit is on

Warranty
The RFIDGS SmartTable™ is warranted against defects in workmanship and materials for a period of 1 year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.

Learn more about RFID Global Solution's products and services by calling our sales team at (866) RFID-123 or email us at sales@rfidgs.com

Visit us at www.rfidgs.com

RFIDglobal SOLUTION

Rev 2.1 6/2012

19. APPENDIX H: SLIN 0009 PRFID PRINTER

Not all listed options are included in SLIN. Refer to Section 10 for specific offering.

Product profile

PM43
PM43c

Mid-Range Industrial Label Printers

PM43/PM43c mid-range industrial printers are ideal for a wide range of applications within the distribution center/warehouse and manufacturing environments.

Ready – Fastest to deploy. Seamlessly fits any environment.
- Large color multi-lingual tamper proof touch-screen or icon user interface
- No touch configuration capabilities
- Only CCX & WiFi certified fixed printers with standard IPv6 implementation

Reliable – Maximize uptime. Built from 40 years of printing innovations. 3rd generation platform.
- Precision Print for consistent bar code printing with pin point accuracy
- Multilingual Web page loaded on every printer ensure easy device monitoring
- Strong metal structure with metal door that can be locked for media protection

Perform – Increase productivity and process efficiencies. Simple to use.
- Fastest throughput in its class
- Powerful programmable capability with ability to directly connect peripherals
- Most connectivity options in the market

The Intermec PM43 and more compact PM43c mid-range industrial label printers deliver fast, drop-in deployment, advanced connectivity and proven reliability to maximize uptime.

Ready

PM43/PM43c are ready to deliver maximum uptime. Both models are available with either a tamper-proof color touch-screen in 10 languages or a universal icon interface. Reduce your total workforce training and device support needs with immediate notifications via the printer and the elimination of reconfiguration due to UI tampering.

Experience the fastest deployment time in the market with Intermec's innovative 'No-Touch' configuration via an optional embedded RFID chip. This patented capability means PM43/PM43c can be programmed without having to open the printer box or power it up, translating into significant savings for you.

As the industry's only printers available with WiFi- and CCX-Certification with additional BT connectivity, PM43 and PM43c help maintain wireless network integrity. Every printer ships with Ethernet connectivity, as well as with network protocol IPv6, ensuring long-term, enterprise scalability.

Reliable

As the 3rd generation of Intermec industrial printers, the rugged PM43/PM43c incorporate features that increase uptime and reduce maintenance costs. Strong all-metal construction is perfect for harsh industrial environments and the metal media door with innovative latch system ensures media is protected.

Increase efficiencies through the prevention of frequent media adjustments with Precision Print. Now you can print small barcodes, text and images with pinpoint accuracy – every time.

Device monitoring has never been easier. Every PM43/PM43c has a web page loaded in the printer that allows for easy setup, monitoring and configuration through handheld devices like Intermec's hand held computers, tablets or smart phones. Integrated device management and diagnostic capabilities, provided through Intermec SmartSystems™ and Wavelink Avalanche™, reduce downtime and simplify deployment.

Perform

PM43/PM43c are ready to perform. With the Fastest Print Speed in its class of 12ips, you'll gain a clear productivity advantage. PM43/PM43c are the smartest printers around helping to reduce labeling errors and increase process efficiencies. Printer stand-alone applications, developed through the embedded programming language, directly control other devices such as Scanners, Scales, keyboards and other peripherals helping you decrease infrastructure costs and complexity.

With its user-selectable, all-in-one programming languages, PM43/PM43c fit IT infrastructures, deploying with drop-in simplicity to Intermec or mixed printer environments.

PM43/PM43c are co-engineered and tested with Intermec Media Products, ensuring optimized printhead performance when used with genuine Intermec media.

Intermec

Intermec Lifecycle Services – Delivering Business Continuity

Intermec lifecycle services provide customers and partners with best-in-class support, education, managed and advanced services. For your support plan needs, our Intermec Medallion® Services programs deliver the highest levels of productivity, device reliability, and uptime. The Medallion® Complete support package covers hardware failure, general wear and tear and accidental damage. Find out more about Intermec's lifecycle services solutions at http://www.intermec.com/services.

Description
Industrial Mid Range, Direct Thermal and Thermal Transfer label, ticket and tag printer. Also available with RFID.

Physical Characteristics
PM43: **LxHxW:** 483.54 x 294.61 x 284.2 mm (19.04 x11.6 x 11.19 in)
Weight: 15.82 kg (34.88 lbs.)
PM43C: **LxHxW:** 431.84 x 181 x 252.5 mm (17 x7.13x 9.94 in)
Weight: 12.5 kg (27.65 lbs.)
PM43C with Dome Door:
LXHXW: 500.22X244.87X252.5 mm (19.04X9.64X9.94 in)
Weight: 12.71Kg (28.02 lbs.)

Print Specifications
Max. Width with 203dpi: 108 mm (4.25 in)
Max. Width with 300 dpi: 106 mm (4.17 in)
Max. Width with 406 dpi: 104 mm (4.09 in)
Max. Length: depending on with 203 dpi – 406 dpi: (1.2 m) 48 in to (4.8 m) 191 in

RFID Standards & Frequencies
18000-6C / EPC Class 1 Generation 2
865-928 MHz radio configured to comply with local UHF RFID regulations including FCC and ETSI. Contact local representative for availability in particular regions.

Print Speed
100 – 300 mm/s (4 – 12 ips) variable (203/300 dpi)
100 – 250 mm/s (4 – 10 ips) variable (406 dpi)

Print Resolution
8 dots/mm (203 dpi)
11.8 dots/mm (300 dpi)
16 dots/mm (406 dpi)

Media
Type: Labels and Tags, Linerless and Linered media
Max/Min Width: 114.3 /19.05 mm (4.5 /0.75 in)
Thickness: 3 to 10.4 mil

Configuration: Roll-fed or fanfold
Sensing: Gap, notch, black mark, continuous
Label Roll Max Diameter: 212.75 mm (8.375 in)
Label Roll Core: 38-76 mm (1.5-3 in)
Type: Ribbons
Roll Max Diameter: 80 mm (3.15 in), approx. 450m
Core ID: 25.4 mm (1 in)
Type: Wax, mid-range, resin
Genuine Intermec Media: www.intermec.com/media

Interfaces
Standard:
- Ethernet 10/100 Mbps
- RS-232, up to 115.2 kB/s
  Supported Serial Protocols:
  - Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DSR/DTR, RTS/CTS
  - IPL: XON/XOFF, Intermec Std. Protocol
- USB 2.0
- USB Host/Boot (X1 on PM43C, X2 on PM43)

Optional:
- Parallel IEEE 1284
- Industrial Interface (8 digital in/out, 4 analog relays, 1 RS232/422/485 port)
- Dual Serial ports RS-232, RS-422, RS-485 and 20mA Current Loop
- Dual USB Host/Boot

Wireless:
- IEEE 802.11 b/g/n + Bluetooth
- Wi-Fi Certified, CCX (Cisco®) version 4 Certified
- Static WEP (64 bit and 128 bit), Dynamic WEP (TLS, TTLS, PEAP, LEAP, EAP-FAST), WPA (THIP/CCKM Personal and Enterprise, WPA2 (AES-CCMP/CCKM Personal and Enterprise)
- Multiple industrial antenna options for maximized coverage

Supported Protocols:
TCP/IP-suite (TCP, UDP, ICMP, IGMP, etc.), LPR/LPD, FTP, BOOTP, DHCP, HTTP, SNMPv1/2c/3, (SMTP,SNMP-MIBII supported – over UDP/IP – private enterprise MIB included)
- Supports IPv4 and IPv6
- No touch configuration capability through imbedded RFID chip

Software
Printer Command Languages:
- IPL
- Fingerprint/Direct Protocol
- ZSim (ZPL)
- DSim (DPL)
- Web Page configuration interface
- XML enabled for SAP® AII and Oracle® WMS

Applications / Drivers:
- InterDriver™ Windows printer driver
- Intermec label design and print package
- PrintSet for printer configuration

Development Software:
- Intermec Fingerprint Application Builder™ (IFAB) (RFID libraries included)

Device Management Support:
- SmartSystems™
- Wavelink Avalanche™

Bar Code Symbologies
All major 1D and 2D symbologies are supported.

Standards Supported
UPC/EAN Shipping Container; UCC/EAN 128 Serial Shipping Container; MH10.8 Shipping Label; AIAG (shipping parts label); OGMARS; POSTNET; HIBCC; ISBT 128; GM1724; UPS shipping label; Global Transport Label

Fonts
Monotype font engine
Non-Latin fonts available through WTLE

Graphics
Supports PCX, PNG, GIF and BMP file formats.
Other formats supported with Label Generation Tools.

Memory
Standard: 128MB Flash memory, 128MB SDRAM, Multi-GB USB memory device (FAT16/FAT32 USB drivers supported)

User Interface
Color touch User Interface
Icon User Interface

User Interface Languages
Color Touch interface and Web Page support English, Russian, German, French, Portuguese, Spanish, Italian, Korean, Simplified and Traditional Chinese

Power Supply
AC Voltage: 100 to 240 VAC, 45 to 65Hz
PFC Regulation: IEC320/C14
Power Consumption: Standby 9W; Peak 300W

Operating Environment
Ambient Operating Temperature:
+5°C to +40°C (+41°F to +104°F)
Storage Temperature: -20°C to +70°C (-4°F to +152°F)
Humidity: 20 to 80% non-condensing

Regulatory Approvals
RoHS compliant, CE (EN55022 Class A), FCC Class A, UL/cUL, C-Tick, Energy STAR certified, D Mark and CCC

Options and Accessories
RFID UHF, integral self-strip unit with liner takeup, Label Taken Sensor (LTS), Full Batch Label/Liner Rewinder, parallel interface board, additional serial interface boards*, industrial interface boards*, real time clock, media supply hub, Collapsible Ribbon core cutter, Media low sensor, Linerless

*Not applicable when using IPL firmware

North America Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America Headquarters Office
Brazil
Phone: +55 11 3711-6776
Fax: +55 11 5502-6780

Europe/Middle East & Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific
Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

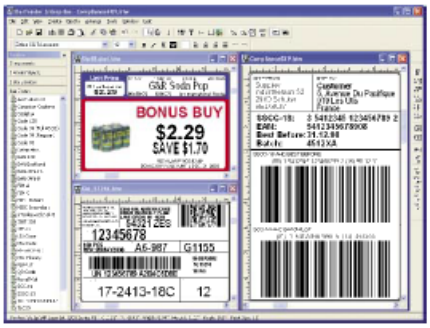
Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799

Label Design Made Simple

The Clear Leader

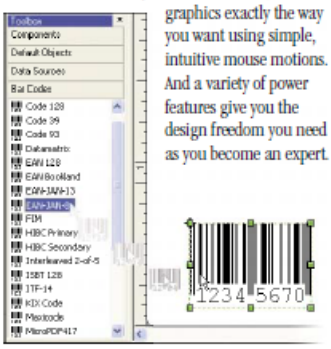
Seagull Scientific is the world leader in true Windows label printing. The trend began in 1993 when BarTender became the first Windows program to support both laser and thermal printers. Today, we are the world's largest developer of true Windows printer drivers for label printers and BarTender is available internationally in over 20 languages. So, choosing the right Windows label software is easy – we've done it the longest and we do it the best.



Modify and print multiple label designs.

Easy to Learn, Easy to Use

If you've used just one other Windows program, you're ready to start designing professional quality labels with BarTender. Careful attention to Microsoft standards for the "look and feel" of software makes it easy. Format bar codes, text and graphics exactly the way you want using simple, intuitive mouse motions. And a variety of power features give you the design freedom you need as you become an expert.



"Instant" Bar Codes! *Create bar codes and other objects with a quick "drag and drop" motion.*

Free Technical Support

Our USA, Europe and Asia offices combine for 24 hours of free phone and e-mail support each day.

High Precision On-Screen Display

The extremely accurate design-time view and print-time preview let you design quickly without wasting labels.

Exceptional Font Control

Access a remarkably wide selection of Windows and printer fonts. Mix different text styles in a paragraph and connect them to different database fields.

Advanced, Customisable Serialisation

Generate anything from the simplest serial numbers to the most advanced, totally custom sequences.

Compliance Labels and Ready-to-Print Formats

We've familiarised ourselves with numerous label standards in order to build BarTender into the most full-featured compliance-labelling tool available. Whether you use our ready-to-print formats or design labels from scratch, you get the power and flexibility to satisfy thousands of compliance label standards.

Custom Data-Entry Forms

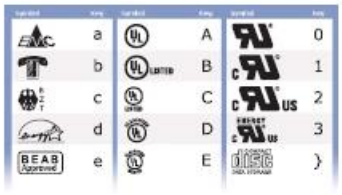
When you won't know some of your label data until the last second, customisable, pop-up "Prompt Dialogs" make it easy to enter it at print time.

Password Protection

By locking BarTender into a "print-only" mode, you can prevent unauthorised users from altering label designs – be it by accident, well-intentioned, or otherwise.

Industrial Symbol Libraries

Choose from hundreds of high-quality, scalable symbols organised into categories such as electrical, hazardous material, packaging, and more.



BarTender comes with hundreds of ready-to-use symbols.

Add Your Own Features Using Visual Basic Script

Our Visual Basic "Script Assistant" lets even non-programmers customise BarTender's behaviour to tackle a wide variety of advanced data-processing and other challenges.

Predefined and Reusable "Toolbox" Components

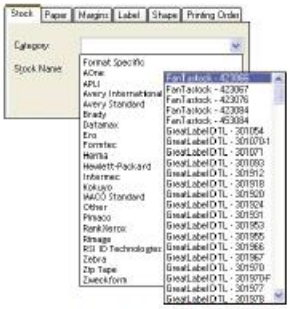
Jumpstart your designs with common, predefined building blocks ready for immediate insertion into your labels. You can also combine label objects into your own components and reuse them in future label designs.

Supports RFID-Capable Printers

Choose from a variety of encoding standards for RFID tags on "smart labels."

Huge, Expandable Label Stock Database

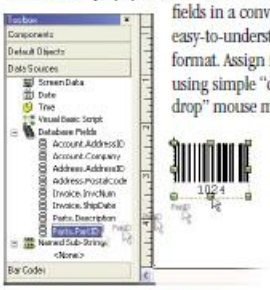
Choose from thousands of ready-to-use label sizes in a huge, conveniently organised label stock database. Or, define and add your own stock sizes.



Choose from more than 2,000 label stock sizes.

Quickly and Easily Assign Data to Label Objects

BarTender displays your available external data fields in a convenient, easy-to-understand format. Assign fields using simple "drag and drop" mouse motions.



20. APPENDIX I: SLIN 0015 PRFID TAG (LOWRY 305-00205)

Material Specification Sheet 305-00205

Features:

- Thermal Transfer, white synthetic label with a high strength, permanent adhesive.
- Facestock has a special topcoating that provides protection for the thermal layer and maximizes print head life.
- Excellent tear strength, heat resistance, and chemical resistance.
- Strong permanent bonding to a wide variety of substrates and high initial tack and adhesion.

Suggested Applications:

- Product identification
- Barcode and rating plates
- Durable goods labeling
- Work in process labeling

Material Construction:	Description	Caliper
Facestock	White topcoated polyester	2.0 mil
Adhesive	High tack, permanent, acrylic	1.0 mil
Liner	50 lb. super-calendered, kraft stock	3.2 mil

Min. Application Temp +45° F

Service Temp Range -30° F to +300° F

Shelf Life
Unless specified otherwise in this document, one year when stored at 72°F at 50% RH.

Statement of Practical Use
As with all pressure sensitive materials, this product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.

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LOWRY Where Innovation Meets Experience

21. APPENDIX J: SLIN 0015 PRFID TAG (LOWRY 305-00206)

Material Specification Sheet 305-00206

Features:

- Thermal Transfer, white synthetic label with a high strength, permanent adhesive.
- Facestock has a special topcoating that provides protection for the thermal layer and maximizes print head life.
- Excellent tear strength, heat resistance, and chemical resistance.
- Strong permanent bonding to a wide variety of substrates and high initial tack and adhesion.

Suggested Applications:

- Product identification
- Barcode and rating plates
- Durable goods labeling
- Work in process labeling

Material Construction:	Description	Caliper
Facestock	White topcoated polyester	2.0 mil
Adhesive	High tack, permanent, acrylic	1.0 mil
Liner	50 lb. super-calendered, kraft stock	3.2 mil

Min. Application Temp $+45^{0}$ F

Service Temp Range -30° F to +300° F

Shelf Life
Unless specified otherwise in this document, one year when stored at 72°F at 50% RH.

Statement of Practical Use
As with all pressure sensitive materials, this product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.

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22. APPENDIX K: SLIN 0015 PRFID TAG (OMNI ID MAX RIGID DUAL BAND)

Omni-ID
Identify with innovation

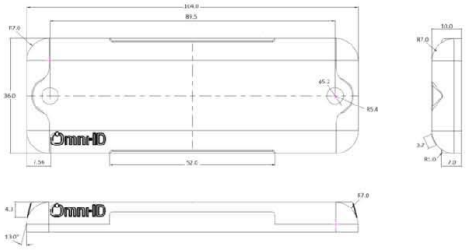
DS-0072-A Custom Datasheet

Visit www.omni-id.com to learn more about the complete line of Omni-ID RFID products.

Omni-ID® Max (Customized)

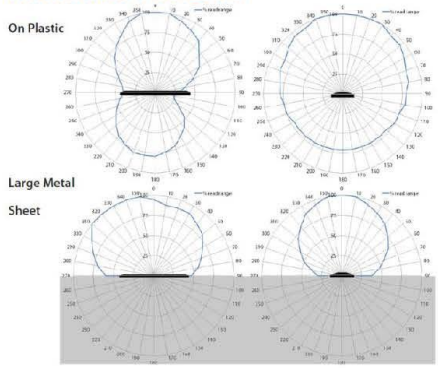
Omni-ID Max (Customized) is a durable passive UHF hard tag designed to a specific size and performance requirement for a custom application.

Dimensions



Dimensions in mm

Radiation Patterns



Product Specifications

Finish	Polycarbonate Rigid Case
Read Range - Fixed Reader	Up to 9.0m
Read Range -Handheld Reader	Up to 4.5m
On Metal or Balanced	Balanced
Size (mm)	104 x 36 x 10
Weight (g)	31.7
Frequency Range (MHz)	Dual band (EU-US) 866 – 928 MHz
IC Type	Alien Higgs 3
Memory	EPC – 96bits User – 512bits TID – 64 buts
Operating Temperature	-40 to +85˚C
IP rating	IP68
Shock and Vibration	MIL STD 810-F
Attachment	3M 4026 Foam Backing
Order information	075-DB: 401, 503

1 – Quoted performance achieved using standard test methodology. Read range will vary with reader hardware and output power.
2.EPC and User memory are reprogrammable, TID is locked at point of manufacture.

Contact Omni-ID

Omni-ID Corporate Headquarters :
1200 Ridgeway Avenue
Rochester, NY 14615 USA

European Office:
The Enterprise Centre
Coxbridge Business Park
Alton Road, Farnham, Surrey
GU10 5EH, United Kingdom

Asia Office:
Process Export Zone
East of Rd No.4 & South of Rd No.2
Chengyang District
Qingdao
266113, P.R. China

23. APPENDIX L: SLIN 0015 PRFID TAG (INTELLEFLEX SMT-8100)

intelleflex | Datasheet | Intelleflex SMT-8100

Intelleflex SMT-8100

Special Purpose RFID Tag for Metals & Liquids

- Up to 100 meter (300+ ft) read/write range
- Stores E-manifest, maintenance records, custody chain, history, user information locally on tags
- Long battery life (up to 4 years), based on duty cycle
- Exceptional read/write reliability in real world environments
- Lockable read/write user memory protects data integrity
- 1 Kb block level locking with separate read/write permalock password protection
- Rugged, compact form factor tags

The Intelleflex SMT-8100 tags are rugged, compact tags specifically designed to provide exceptionally high read/write accuracy and long range operation for a wide variety of indoor and outdoor applications around liquids, metals, and other RF-unfriendly conditions. The SMT-8100 provides accurate reads and writes on vehicles, containers, and bins at ranges of 100 meters or more. In addition, the SMT-8100 tag's proprietary wake-up circuit ensures long battery life with persistent data storage. The tag's innovative security features provide secure on-tag data access. Intelleflex XC3 Technology™ tags are the first to integrate all of these features onto a single chip.

Based on ISO and EPCglobal standards and featuring patent pending tag antenna design, the SMT-8100 is the first tag that offers long range, on-edge performance on metal regardless of tag orientation. It offers exceptional read/write range of up to 100 meters when read edge on and maximizes use of multi-path in metal rich environments to ensure readability. Intelleflex SMT-8100 tags can be easily mounted on reusable totes, heavy machinery, harvesting equipment, trucks, rail cars, cargo containers and more with adhesives, screws or plastic cable ties.

Product Features

Device Type	Class 3 RFID (battery-assisted passive) single chip transponder
RF Interface	ISO/IEC 18000-6:2010 (Manchester BAP), EPCglobal C1G2
Operating Frequency	902-928 MHz (North America); 865.6-867.6 MHz (Europe/India)
Modulation	Amplitude modulated forward link (reader to tag) Frequency modulated reverse link (tag to reader)
Range	Up to 100 meters (300+ ft); For best tag performance, Intelleflex recommends using circular polarized antennas with the reader (part number IA410.1) .
Battery Life	Up to 4 years depending on use; data is persistent and also readable at close range upon battery expiration
Data Rates	8-128 Kb/sec forward link Up to 640 Kb/sec reverse link

intelleflex | Datasheet | Intelleflex SMT-8100

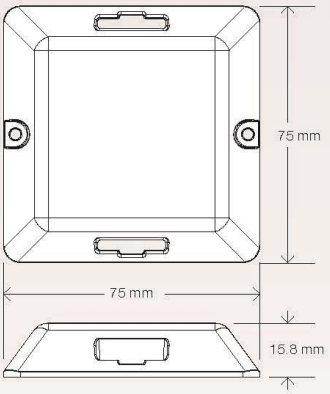
Data Retention	10 years at 85°C	
Memory	64 Kb total, 60 Kb rewritable non-volatile user memory	
Environmental	**Enclosure Protection**	IP67
	Temperature (Operating and Storage)	-22° to +176°F (-30° to +80°C)
	Shock	IEC 60068-2-32, test Ed
	Vibration	IEC 60068-2-6, test Fc
General Dimensions	2.95" x 2.95" x 0.62" (75 mm x 75 mm x 15.8 mm) (L x W x D), Weight: 47g	
Other Features	Password-controlled read, write, 1 Kb block level locking, and permalock	
Mounting Options	Screws, straps, adhesive; not included	
Screw Type Options	**Machine Screw** Socket Head, Button Head or Pan Head Screws Recommended Holes Designed for 4-40 or M3 Screw Threads Recommended Minimum Screw Length: 5/16" (8.00 mm)	
	Wood Screw Standard #4 Wood Screw Recommended Round Head Recommended Recommended Minimum Screw Length: 5/16" (8.00 mm)	
Warranty	The SMT-8100 is warranted against defects in workmanship and materials for a period of two (2) years. See Terms of Sale for warranty details.	

Ordering Information

Part Number	Description
SMT-8100	Standard asset tag for metal or other conductive surface mounting, and multi-path environments

Specifications are subject to change without notice.

Design



For More Information

To learn more please visit our website or contact us directly. We look forward to hearing from you.

www.intelleflex.com

+1 877 694 3539 Toll Free
+1 408 200 6500 International/Direct

info@intelleflex.com

24.APPENDIX M: SLIN 0015 PRFID TAG (LOWRY 305-00207)

Material Specification Sheet
Lowry 305-00207

Features:

- Direct thermal, smooth white paper label with a non-tackified, all-temperature acrylic adhesive.
- Facestock has a special topcoating for more demanding applications and higher imaging speeds.
- Adheres to a wide variety of packaging materials. Consider for general purpose labeling.

Material Construction:	Description	Caliper
Facestock	White high-sensitivity topcoated paper	3.0 mil
Adhesive	All temperature, permanent acrylic	0.7 mil
Liner	41 lb. white densified, kraft stock	2.5 mil

Min. Application Temp -20° F

Service Temp Range -65° F to +180° F

Statement of Practical Use

As with all pressure sensitive materials, this product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.

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25. APPENDIX N: SLIN 0015 PRFID TAG (OMNI-ID PROX-NG)

Omni-ID®
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Visit www.omni-id.com to learn more about the complete line of Omni-ID RFID products.

Omni-ID® Prox-NG

Omni-ID Prox NG is a small form factor, global, RFID tag designed specifically for enterprise IT asset management environments. Market leading consistency is provided through its balanced, broadband RF design which supports handheld and portal use cases on both metal and plastic assets alike. Prox NG also includes a tether hole as standard, making it easy to deploy on any IT asset, anywhere in the world.

Applications

With its low profile, small footprint and consistent RF performance, Prox NG tags are ideally suited to IT asset management applications including tracking:

- Servers.
- Routers and Blades.
- Switches.

Physical Specifications

Encasement	Synthetic Label
Size (mm) (tolerance)	37.5 x 12.5 x 4.5 (+/- 0.5)
Size (in) (tolerance)	1.48 x 0.49 x 0.177 (+/-0.02)
Weight (g)	2.2

Dimensions stated in mm

RF Specifications

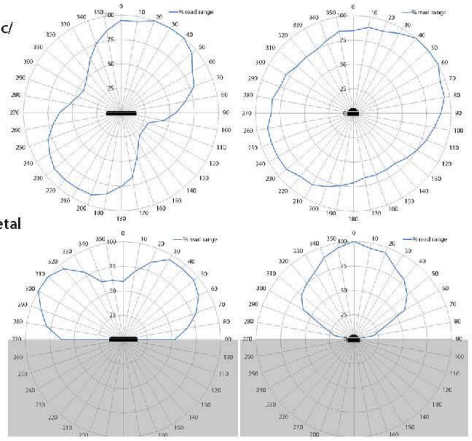
Protocol	EPC Class 1 Gen2
Frequency Range (MHz)	860-930MHz (Dual Band)
Read Range (Fixed reader)[1]	1.8m +/– 25%
Read Range (Handheld reader)[1]	0.9m +/– 25%
Material Compatibility	Metal and non-metallic substrates
IC Type (chip)	Alien H3
Memory [2]	EPC - 96bits User - 512bits TID - 64bits

1. Quoted performance achieved using standard testing methodology. Read range will vary with reader hardware and output power.
2. EPC and User memory are reprogrammable, TID is locked at point of manufacture.

Radiation Patterns

On Plastic/ Free Air

Large Metal Sheet



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Omni-ID®
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Visit www.omni-id.com to learn more about the complete line of Omni-ID RFID products.

Related Products and Services

- **Omni-ID Prox label -** Consistent, small form factor tag for mixed metal and plastic IT asset environments.
- **Omni-ID IQ 400P-** Small premium label for plastic assets.
- **Omni-ID Prox Rigid-** Small form factor, durable RFID tag for industrial and outdoor environments with metal and plastic assets.
- **Service Bureau** - Omni-ID offers a full service bureau for printing and pre-encoding Omni-ID tags at point of manufacture.

Environmental Specification

Operating Temperature	–5 to +55°C
Long term Max Temperature [1] exposure - (days,weeks,years)	+55°C
Short term Max Temperature [1] exposure - (minutes,hours)	+65°C
IP Rating	IP54
Shock and Vibration	MIL STD 810-F
Attachment	Film Adhesive and tether hole (std) Std Foam adhesive (opt) Premium foam adhesive (opt.)
Certifications	RoHS approved CE approved ATEX/IECEx certified (option) US&Canada (C1D1/D2) certified (option)
Warranty	1 year

1. Excludes adhesive options, consult adhesive data sheets for recommended temperature ratings.

Ordering Information

Order Numbers	031 – DB :304 (ATEX/IECEx certified) :307 (US&Canada (C1D1/D2) certified) :507 (std. foam), :508 (premium foam) :701 (Standard Service Bureau) :702 (Custom Service Bureau)

For more information, contact:

Omni-ID Corporate Headquarters:
1200 Ridgeway Ave
Rochester, NY 14615 USA

European Office:
The Enterprise Centre
Coxbridge Business Park
Alton Road, Farnham, Surrey
GU10 5EH, United Kingdom

Asia Office:
Process Export zone
East of Road No.4 and South of Road No.2
Chengyang District
Qingdao
266113, P.R. China

For product or technology inquiries:
Email customer.services@omni-id.com

CE RoHS Ex

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032012

26.APPENDIX O: SLIN 0015 PRFID TAG (OMNI-ID FLEX)

Omni-ID
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Visit www.omni-id.com to learn more about Omni-ID's complete line of RFID products.

Omni-ID Max™
Omni-ID Flex™
Omni-ID Prox™

Omni-ID Flex™ (U.S. Version)

Omni-ID Flex is a medium-range passive UHF RFID tag with a managed read range greater than 16.5 feet—offering increased visibility of assets and stock/intermediates, and greater efficiency in manufacturing and retail environments. The product delivers an outstanding performance-to-size ratio, while providing balanced on/off metal performance. These features are critical in the area of laptop tracking, where Omni-ID Flex ensures accurate asset registration and security benefits.

Omni-ID Flex comes as standard with a printed label finish. It is also available in a low-profile ruggedized rigid case for applications with harsh environmental requirements.

Barcodes meet RFID.

In order to provide a transition between barcode and RFID functionality, Omni-ID Services are available to print barcode and human readable information on the outer label, and add chip programming with the associated EPC code on each individual tag.

Omni-ID is RFID, redefined.

We eliminated the interference from metals and liquids that cause conventional RFID tags to underperform in harsh environments. Our breakthrough technology enables you to track high value assets and manage supply chains with over 99.99% accuracy. Yet, not only have we developed the industry's most reliable RFID tags, we've also built alliances with the most trusted providers of RFID hardware, software, and solutions. Together, we can ensure that you have a complete solution that meets your unique requirements. All of which explains why a growing number of companies are choosing to identify with Omni-ID. Interested in joining them? Contact Omni-ID today.

UHF "On Metal" Tag Comparison

	Omni-ID Tag	Stand-off/Spacer Tag	Magnetic Isolating Barrier Tag	Tuned Antenna and Ground Plane Tags	Patch Antenna Tags
Size and shape	Small	Large	Small	Medium	Small
Balanced performance on and off metal	High	Medium	Low	Medium	Low
Reliability/robust performance in a metal environment	High	Low	Low	Low	High
Value for money	High	Medium	Low	Medium	Low

1 For more information on the Omni-ID Flex with a ruggedized rigid case finish, contact your Omni-ID representative.

Omni-ID
Identify with Innovation

Visit www.omni-id.com to learn more about Omni-ID's complete line of RFID products.

Omni-ID Max™
Omni-ID Flex™
Omni-ID Prox™

Omni-ID Flex Applications

- Laptop tracking
- Shelf-edge retail and warehouse location
- Automotive parts and components tracking
- Tool tracking

Omni-ID Flex Highlights

- Robust, balanced performance on, off, or near metals and liquids
- Fast read speeds and reliable read rates of over 99.99%
- Excellent price-to-performance ratio
- Increased visibility of assets/conveyances
- Improved efficiency for locating or auditing items
- 240 bit EPCglobal Class-1 Gen2-compliant silicon
- Minimal support requirements
- Supplied with label finish or optional ruggedized case finish

Contact Omni-ID

For more information, please contact:
Email customer.services@omni-id.com
Call 650-587-0812

Visit www.omni-id.com to learn more about Omni-ID's complete line of RFID products

Omni-ID Flex Specifications

	Omni-ID Flex (U.S. Version)	
General Information		
Frequency range	902MHz to 928MHz	
IC	Alien Higgs H2	
RF Specifications		
IC Protocol	UHF EPC Class-1 Gen2	
IC Memory	240 bits	
Read range on metal[1]	>16.5ft	
Read range off metal[1]	>16.5ft	
Physical Specifications		
Encasement	**Label covering**	**Ruggedized rigid case**
Attachment	3M 9742LE self adhesive	2x Ø 0.2 inch rivet hole and 3M 9742LE self adhesive
Length	3.0 inch	3.8 inch
Width	0.6 inch	0.8 inch
Thickness	0.10 inch	0.22 inch
Casing material	Laminated label	ABS
Color	N/A	Light Blue
Mass	0.09 oz	0.41 oz
Ingress protection	N/A	IP68[2]
Operating temperature[3]	-4°F to +149°F	-4°F to +149°F
Order reference number	0112-0303-0405	0112-0303-0207

Omni-ID Flex (US) v1.1

1 Quoted performance achieved using standard Omni-ID test methodology, details available upon request.

2 Product designed to meet IP68 (please contact Omni-ID for further details).

3 Temperature testing methodology in accordance with BS EN 60068-2-1 and BS EN 60068-2-2.

27.APPENDIX O: SLIN 0017 PRFID SOFTWARE

System Requirements

Development Hardware

Configuration	Requirement
Computer Processor	Intel Pentium IV, 1.40 GHz Recommended: Intel Pentium IV, 2.8 GHz or greater
CPU Memory	512 MB RAM. Recommended: 1 GB or greater
Hard Disk Space	600 MB (includes Microsoft .NET 1.1 Framework) Recommended: 20 GB or greater
Drive	CD-ROM or DVD drive.
Video	1024x768 Medium Color 16-bit To support accessibility requirements
Keyboard and Mouse	Required.
Network Interface	RJ-45 Ethernet Port

Deployment Server Hardware:

Configuration	Requirement
Computer Processor	Single Pentium IV-compatible, 1.40 GHz Recommended: Intel Xeon Dual or Quad Core 2.0 GHz +
CPU Memory	512 MB RAM Recommended: 2 GB or greater
Hard Disk Space	2 GB with 1 GB free space. Additional free hard disk space is required if you are installing over a network. Recommended: 30 GB or greater
Drive	CD-ROM or DVD drive.
Video	1024x768 Medium Color 16-bit To support accessibility requirements
Keyboard and Mouse	Required.
Network Interface	RJ-45 Ethernet Port

Software Requirements

Development Environment:

- Operating System:
  - Windows 2000 Professional, SP2 or greater
  - Windows XP Professional, SP1, Microsoft Vista
- Microsoft .NET Framework, v3.5
- Microsoft WSE 2.0 SP3 Runtime (distributed with iMotion Platform)
- Microsoft Data Access Components (MDAC v2.7 or greater)
- Microsoft Visual Studio .NET 2003 or above
- Microsoft Information Server (IIS) 5.0 or above if using Windows 2003.

Server Environment:

- Microsoft Windows 2000 Server or greater
- Microsoft Information Server (IIS) 5.0 or above if using Windows 2003.
- Microsoft .NET Framework 3.5
- Microsoft WSE 2.0 SP3 Runtime (distributed with iMotion Platform)
- Microsoft MDAC 2.7 or greater

SmarTrack SA RFID

Digital Asset and Lifecycle Management Tracking System

Williams Software Associates Corp.

Comprehensive Solution

SmarTrack RFID SA

Digital Asset Tracking System consisting of several plug and play modules that allow for a customizable solution.

SmarTrack RFID SA is the stand-alone version. It can be connected to multiple Active or Passive RFID antennae, portals and readers.

SmarTrack RFID can integrate virtually any type of RFID tag option.

When combined with the SmarTrack asset tracking capability the solution provides asset tracking, inventory management, maintenance management, parts and warehouse management, finical reporting, ordering and shipping tracking makes for a comprehensive and powerful asset management solution.

Additional Information

- 3 Year Warranty
- Perpetual Support
- Phone and Internet Support
- On-Site Installation Services Available
- On-Site Training Services Available
- Custom Software Enhancements Available

System Requirements

- Windows Vista, 7 Pro, 8.1 and 10
- Pentium or greater processor (i7 Recommended)
- 500Gb Hard drive (SSD Recommended)
- 4GB RAM
- Windows Mobile Device Center Software (Free from Microsoft)
- Microsoft SQL server 2008 or 2012 express (Free from Microsoft)
- Applicable RFID Portals
- Applicable RFID Reader
- Applicable RFID Antennae
- Wi-Fi Router if wireless
- Router for wired installation

Key Versions

- SmarTrack SA RFID Army
- SmarTrack RFID Air Force
- SmarTrack RFID Navy
- SmarTrack RFID Marines
- SmarTrack RFID Law Informant
- Smartrack RFID DEA
- SmarTrack RFID Warehouse

Benefits

- Inventory Management
- Asset Control
- Maintenance
- Life Cycle Management
- Personnel Management
- Customer Management
- Technician Management

SmarTrack SS RFID

Digital Asset and Lifecycle Management Tracking System

Williams Software Associates Corp.

Comprehensive Solution

SmarTrack RFID SS

Digital Asset Tracking System consisting of several plug and play modules that allow for a customizable solution.

SmarTrack RFID SS is the server version. It can be connected to client machines, Multiple Active or Passive RFID antennae, portals and readers.

SmarTrack RFID can integrate virtually any type of RFID tag option.

When combined with the SmarTrack asset tracking capability the solution provides asset tracking, inventory management, maintenance management, parts and warehouse management, finical reporting, ordering and shipping tracking makes for a comprehensive and powerful asset management solution.

Additional Information

- 3 Year Warranty
- Perpetual Support
- Phone and Internet Support
- On-Site Installation Services Available
- On-Site Training Services Available
- Custom Software Enhancements Available

System Requirements

- Windows Server 2008 or 2012
- Pentium or greater processor (i7 Recommended)
- 500Gb Hard drive (SSD Recommended)
- 16GB RAM
- Windows Mobile Device Center Software (Free from Microsoft)
- Microsoft SQL server 2008 or 2012 Applicable RFID Portals
- Applicable RFID Reader
- Applicable RFID Antennae
- Wi-Fi Router if wireless
- Router for wired installation

Key Versions

- SmarTrack SA RFID Army
- SmarTrack RFID Air Force
- SmarTrack RFID Navy
- SmarTrack RFID Marines
- SmarTrack RFID Law Informant
- Smartrack RFID DEA
- SmarTrack RFID Warehouse

Benefits

- Inventory Management
- Asset Control
- Maintenance
- Life Cycle Management
- Personnel Management
- Customer Management
- Technician Management

28. APPENDIX P: ACRONYMS

Acronym	Description
AC	Alternating Current
AIT	Automatic Identification Technology
AMIS	Automated Movement and Identification Solutions
BRI	Basic Radio Interface
CAC	Common Access Card
CASE	Computer Aided Software Engineering
CD-ROM	Compact Disc – Read Only Memory
CONUS	Contiguous United States
COTS	Commercial Off-The-Shelf
CLIN	Contract Line Item Number
DC	Direct Current
DCN	Document Control Number
DRMO	Defense Reutilization and Marketing Office
DFARS	Defense Federal Acquisition Regulation Supplement
EDI	Electronic Data Interchange
EDM	Edge Device Manager
EMC	Edge Management Console
EPM	Edge Process Manager
ETSI	European Telecommunications Standards Institute
EWE	Event Workflow Editor
FCC	Federal Communications Commission
FFP	Firm Fixed Price
GB	Giga Byte
GPIO	General Purpose Input Output
GPS	Global Positioning Satellite
GUI	Graphical User Interface
HHR	Handheld Reader
HHT	Handheld Terminal
ID	Identification
IDIQ	Indefinite Delivery Indefinite Quantity
IDEF	Integration Definition
ISD	Instructional Systems Development
IT	Information Technology

Acronym	Description
LAN	Local Area Network
LLRP	Low Level Reader Protocol
NATO	North Atlantic Treaty Organization
NEMA	National Electronics Manufacturers Association
NI	Non-Incendive
OCONUS	Outside Contiguous United States
ODC	Other Direct Cost
OEM	Original Equipment Manufacturer
OS	Operating System
POC	Point of Contact
pRFID	passive Radio Frequency Identification
RF	Radio Frequency
RMA	Return Materiel Authorization
ROI	Return On Investment
SLIN	Sub Line Item Number
SDK	Software Development Kit
SW	Software
TES	Technical Engineering Services
UHF	Ultra High Frequency
UID	Unique Identification
UPS	United Parcel Service
US	United States
USB	Universal Serial Bus
VA	Virginia
VDE	Virtual Device Emulator