**U.S. Army Automated Movement and Identification Solutions (AMIS) Automatic Identification Technology (AIT) V**

Contract W52P1J-15-D-0061

**AIT V USER & PRICING Guide**

March 25, 2019

Document Control Number: 14466-001-000-074

**Version 4.0**

Prepared for:

Mr. Klaus B. Stroup

Contracting Officer’s Representative

Automated Movement and Identification Solutions

200 Stovall Street, Suite 5N63

Alexandria, VA 22332



Prepared by:

SRA International, Inc., a GDIT Company

15036 Conference Center Drive

Chantilly, VA 20151

**Proprietary Information**

This information contained in this document is the property of GDIT. It has been prepared for the use of US Army AMIS. GDIT reserves the right to revise this document, with conformity to the Requirements Change Process agreed to by GDIT and US Army AMIS.

Change Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Rev** | **Date** | **Author** | **Description** |
| 0.1 | 6/03/2015 | Scatamacchia | Initial draft of AIT V Ordering Guide |
| 1.0 | 8/06/2015 | Scatamacchia | Incorporates comments rx’d from AMIS on 6/19/2015 |
| 1.1 | 8/18/2015 | Scatamacchia | Included picture of CLIN 0007AA (per ACC request) |
| 1.2 | 10/16/2015 | Scatamacchia | Updated OG to reflect the following CCPs:   * ASR008rev1 – CLINs 0001BG, 0001CG, and 0001DG * ASR011 – CLIN 0009AA * ASR012 – CLIN 0009AB |
| 1.3 | 12/28/2015 | Scatamacchia | Updated OG to reflect the following CCPs   * ASR013 – CLIN X003AB * APM002 – CLINs X001BA, X001BB, X001BC, X001BN, X001CA, X001CB, X001CC, X001CN, X001DA, X001DB, X001DC, X001DN, X001BQ, X001CQ, X001DQ, and X009AD   Added preliminary references to CSRA (IAW SRA / CSGov Merger)  Added language to relect reserve status of HHT-A (CLIN X0001AX) |
| 1.4 | 02/15/2016 | Scatamacchia | Updated OG to reflect following CCPs   * APM003 – CLINs X001EA, X001EH, X001FH   Updated applicable email addresses to fit new CSRA format  Removed reference to “PD AMIS” and replaced with “AMIS” |
| 2.0 | 03/07/2016 | Scatamacchia | Updated OG to reflect changes to HHT-B offering including all CLINs of the format X001BX |
| 2.1 | 06/27/2017 | Scatamacchia | Updated OG to reflect the following CCPs   * APM004 – CLIN X001EA and X001FA |
| 3.0 | 11/14/2016 | Scatamacchia | Updated to reflect the following CCPs   * ASR016 – CLINs X0001AX |
| 3.1 | 09/04/2017 | Scatamacchia | Updated Description of CLINs X001EA and X001FA to detail approval in specific hazardous environments |
| 4.0 | 07/30/2018 | Michalski | Changed offering for CLINs X003XX from Motorola 35XX family to Zebra 36XX family and added reference to new HHT-G  Updated OG to reflect CCP ASR018:  Changed offering for CLINs X005BA and X005BB from Zebra 105 SL Plus Series printer to Zebra ZT510 Series printer |
| 5.0 | 3/25/2019 | James | Updated POCs |

Copyright © 2015 SRA International, Inc., a GDIT Company

All rights reserved

**Table of Contents**

[1. Introduction 1](#_Toc445459030)

[1.1. Purpose 1](#_Toc445459031)

[1.2. Program Profile 1](#_Toc445459032)

[1.3. Scope 1](#_Toc445459033)

[1.4. Points of Contact 1](#_Toc445459034)

[1.5. Ordering Procedure 1](#_Toc445459035)

[2. Hardware 3](#_Toc445459036)

[2.1. Handheld Terminals 3](#_Toc445459037)

[2.2. Barcode Imagers 19](#_Toc445459038)

[2.3. Barcode Label Printers 20](#_Toc445459039)

[2.4. IUID Marking and Verification Equipment 23](#_Toc445459040)

[2.5. RF Data Communications 24](#_Toc445459041)

[2.6. Transit Cases 26](#_Toc445459042)

[3. Hardware Cables 28](#_Toc445459043)

[4. Software 31](#_Toc445459044)

[4.1. AIT V - Software 31](#_Toc445459045)

[5. Technical Engineering Services 33](#_Toc445459046)

[5.1. Technical Engineering Services 33](#_Toc445459047)

[6. Training 36](#_Toc445459048)

[6.1. Available Training 36](#_Toc445459049)

[7. Warranty 37](#_Toc445459050)

[7.1. Warranty Support 37](#_Toc445459051)

[7.2. Manufacturer’s Warranty 37](#_Toc445459052)

[7.3. When Equipment is under warranty 37](#_Toc445459053)

[7.4. When Equipment is out of warranty 37](#_Toc445459054)

[7.5. Warranty Tracking 37](#_Toc445459055)

[8. Preventive maintenance 38](#_Toc445459056)

[9. AIT V Product Pricing 43](#_Toc445459057)

**Table of Tables**

[Table 1: Program Profile 1](#_Toc445459058)

[Table 2: Points of Contact 1](#_Toc445459059)

[Table 3: HHT-A CLINs 3](#_Toc445459060)

[Table 4: Motorola MC75A Physical Dimensions & Interfaces 4](#_Toc445459061)

[Table 5: HHT-A Separately Orderable Components 4](#_Toc445459062)

[Table 6: HHT-B CLINs 6](#_Toc445459063)

[Table 7: Intermec CN70e Physical Dimensions & Interfaces 7](#_Toc445459064)

[Table 8: HHT-B Separately Orderable Components 7](#_Toc445459065)

[Table 9: HHT-C CLINs 9](#_Toc445459066)

[Table 10: Motorola MC92N0 Physical Dimensions & Interfaces 10](#_Toc445459067)

[Table 11: HHT-C Separately Orderable Components 10](#_Toc445459068)

[Table 12: HHT-D CLINs 12](#_Toc445459069)

[Table 13: Motorola MC92N0 Physical Dimensions and & Interfaces 12](#_Toc445459070)

[Table 14: HHT-E CLINs 13](#_Toc445459071)

[Table 15: Panasonic FZ-G1 Physical Dimensions and Interfaces 14](#_Toc445459072)

[Table 16: HHT-E Separately Orderable Components 14](#_Toc445459073)

[Table 17: HHT-F CLINs 16](#_Toc445459074)

[Table 18: Panasonic FZ-M1 Physical Dimensions and Interfaces 17](#_Toc445459075)

[Table 19: HHT-F Separately Orderable Components 17](#_Toc445459076)

[Table 20: Barcode Scanning /Imaging CLINs 19](#_Toc445459077)

[Table 21: Motorola DS3508-SR Physical Dimensions and Interfaces 19](#_Toc445459078)

[Table 22: Motorola DS3578 Physical Dimensions and Interfaces 19](#_Toc445459079)

[Table 23: Motorola DS3508-DP Physical Dimensions and Interfaces 20](#_Toc445459080)

[Table 24: Portable/Wearable Printer CLINs 20](#_Toc445459081)

[Table 25: Zebra P4T Physical Dimensions and Interfaces 21](#_Toc445459082)

[Table 26: Portable Printer Separately Orderable Components 21](#_Toc445459083)

[Table 27: Stationary Printer CLINs 22](#_Toc445459084)

[Table 28: Zebra ZT510 Physical Dimension s and Interfaces 22](#_Toc445459085)

[Table 29: Laser Marking Equipment CLINs 23](#_Toc445459086)

[Table 30: Trotec Rayet 50e Physical Dimensions and Interfaces 23](#_Toc445459087)

[Table 31: Verification Equipment CLINs 24](#_Toc445459088)

[Table 32: Webscan TruCheck 2D USB Physical Dimensions and Interfaces 24](#_Toc445459089)

[Table 33: Wireless Access Point CLINs 24](#_Toc445459090)

[Table 34: Wireless Access Point Physical Dimensions and Interfaces 25](#_Toc445459091)

[Table 35: RF Gateway CLINs 25](#_Toc445459092)

[Table 36: CLIN 0009AC Physical Dimensions and Interfaces 26](#_Toc445459093)

[Table 37: Transit Case CLINs 26](#_Toc445459094)

[Table 38: CLIN 0011AA Components 26](#_Toc445459095)

[Table 39: AIT V Cables 28](#_Toc445459096)

[Table 40: Software CLINs 31](#_Toc445459097)

[Table 41: Bartender Label and RFID Software System Requirements 31](#_Toc445459098)

[Table 42: SMARTACK System Requirements 32](#_Toc445459099)

[Table 43: AMIS AIT V Team Mates 33](#_Toc445459100)

[Table 44: AIT V Labor and Cost Reimbursable CLINs 33](#_Toc445459101)

**Table of Figures**

[Figure 2‑1: Motorola MC75 3](#_Toc444866272)

[Figure 2‑2: Intermec CN70e 6](#_Toc444866273)

[Figure 2‑3: Motorla MC92N0 9](#_Toc444866274)

[Figure 2‑4: Panasonic FZ-G1 14](#_Toc444866275)

[Figure 2‑5: Panasonic FZ-M1 16](#_Toc444866276)

[Figure 2‑6: Motorola DS3508 Barcode Scanner 19](#_Toc444866277)

[Figure 2‑7: Zebra P4T Printer 21](#_Toc444866278)

[Figure 2‑8: Zebra ZT510 Printer 22](#_Toc444866279)

[Figure 2‑9: Trotec Rayjet 50e 23](#_Toc444866280)

[Figure 2‑10: Webscan TruCheck 2D USB Wide Angle 24](#_Toc444866281)

[Figure 2‑11: Aruba AP-205-F1 25](#_Toc444866282)

[Figure 2‑12: Aruba AP-275-F1 25](#_Toc444866283)

[Figure 2‑13: Aruba 3200-USF1 (3 units shown) 26](#_Toc444866284)



# Introduction

## Purpose

The purpose of this Ordering Guide (OG) is to assist Government personnel in determining the system configuration that will best meet their operational requirements for Automatic Identification Technology (AIT). This OG 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.

## Program Profile

Table 1: Program Profile

| **Elements of Identification** | |
| --- | --- |
| Contract Type | Single Firm Fixed Price (FFP) with reimbursable ODC and travel CLINs |
| Period of Performance (PoP) | May 11, 2015 to May 10, 2018 (Includes Option Year) |
| Vehicle (Program) | Indefinite Delivery Indefinite Quantity (IDIQ) |
| Contract Number | W52P1J15D0061 |
| Prime Contractor | SRA International, Inc., a GDIT Company |
| Vehicle Organization | US Army, Automated Movement and Identification Solutions (AMIS) |
| Vehicle Name | Automatic Identification Technology (AIT) V |

## Scope

The AIT V 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 AIT into new and/or existing architectures.

## Points of Contact

Table 2: Points of Contact

|  |  |
| --- | --- |
| **Role** | **Contact Information** |
| **Army Contract Officer’s Representative** | Mr. Klaus B. Stroup  [klaus.b.stroup.civ@mail.mil](mailto:klaus.b.stroup.civ@mail.mil)  (703) 806-0284 |
| **GDIT Program Manager** | Travis J. James  Travis.james@gdit.com  (703) 224-3866 |
| **GDIT Technical Director** | Amy Coffee  Amy.coffee@gdit.com  (703) 224-3816 |
| **GDIT Contract Administrator** | Morna Green  Morna.green@gdit.com  (571) 446-5310 |

## Ordering Procedure

The AIT V 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 two-year ordering base period from time of contract award, plus a single one year option period. All ordering after the Base Period is subject to the Government’s Option to Extend the Term of the Contract. All AIT V products including Technical Engineering Services (TES) and warranties are identified in Section 9. The appropriate GDIT Points of Contact (POC) are identified in Section 1.4. The AIT V Help Desk is accessible by phone: (703) 284-3223 and via e-mail: [AITV@sra.com](mailto:AITV@sra.com). Additional detail on the AIT V government ordering procedures can be found through AMIS’s AIT V website (<http://www.pdamis.army.mil/Contracts/aitv/aitv_OrderingProcedures.pdf>).

# Hardware

## Handheld Terminals

### Overview

A handheld terminal (HHT) allows users to extend the reach of their Automated Information System (AIS) from the desktop to the area where data is recorded while enabling the business process advantages (such as data accuracy and streamlined data collection) associated with the use of linear and 2-Dimensional barcodes. HHTs are made up of multiple components including a mobile computer which includes a battery, battery charger, CAC authentication capability, a 3-year warranty, and all of the cables and adapters required for the HHT to operate. These devices can communicate wirelessly or in batch mode during operations when radio-frequency (RF) communications are not permitted.

### CLINs HHT-A

Table 3: HHT-A CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0001AA | Motorola KT-67NA-PBABAA0030 | MC75A with full keypad |
| CLIN 0001AB | Motorola SSB-MC67XX-20-R | 5-year Service Plan for HHT-A |
| CLIN 0001AC | Motorola SSB-MC67XX-40-R | 7-year Service Plan for HHT-A |
| CLIN 0001AD  **RESERVED** | Motorola SG-MC5521110  Motorola 58-40000-007R | Fabric Holster and Shoulder Strap |
| CLIN 0001AE | Motorola TRG5500-101R | Pistol Grip for HHT-A |
| CLIN 0001AF | Motorola BTRY-MC55EAB02 | Rechargeable Battery |
| CLIN 0001AG | Motorola SAC5500-4000CR | 4-Slot Battery Charger |
| CLIN 0001AH | Motorola CRD-MC5X-RCHG1-01 | Single Slot Battery Charger/Docking Station |
| CLIN 0001AJ | Motorola STYLUS-00003-03R | Replacement Styli |
| CLIN 0001AK | Motorola KT-137521-03R | Replacement Screen Protector |
| CLIN 0001AN | Barcodes Inc MCSL-1 | Disabling of Wireless Communications for HHT-A |
| CLIN 0001AP | TSL 1157-01-S0-MC67-CSC | Detachable CAC Reader |
| CLIN 0001AQ | Apriva BT200Z | Bluetooth CAC Reader |

[](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwj8jcT9_6jQAhVMRiYKHfZeBLoQjRwIBw&url=https://www.zebra.com/us/en/products/mobile-computers/handheld/mc67-mobile-computer-series.html&psig=AFQjCNF2FULCM5KyfLcawXPgJ4u5fmOqAA&ust=1479238761918100)

Figure 2‑1: Motorola MC67

### Description of HHT-A (CLIN 0001AA):

The Motorola MC67 is an ultra-rugged mobile computer that combines barcode scanning and mobile computing packaged in a housing that optimizes size, weight, and toughness. The MC75A includes a 3.5-inch color VGA (with LED backlight and touchscreen capability) and is housed in a compact form factor that is designed to withstand extreme temperature, humidity, and shock. The table below summarizes the dimension of the MC67 and the available interfaces.

Table 4: Motorola MC67 Physical Dimensions & Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 6.38 in x 3.03 in x 1.32 in |
| Weight | 13.5 oz |
| Wireless Interfaces | 802.11 a/b/g  Bluetooth |
| Cable Interfaces | Docking  USB |
| Power Requirements | 3.6 V / 3600 mAh |
| Separation Requirements | No Separation Distance required when used in Radio Deactivation Mode (See CLIN 0001AM) |

### Included with HHT-A

Included in CLIN 0001AA are 2 GB storage card, stylus, and all required power adapters and cables for components offered with the MC67. Users are requested to specify the power requirements for the intended geographic area of operations when ordering.

### HHT-A Separately Orderable Components

HHT-A is available with the separately orderable components listed in the table below.

Table 5: HHT-A Separately Orderable Components

|  |  |
| --- | --- |
| **HHT-A Holster and Shoulder Strap (CLIN 0001AD)** | |
| The MC67 holster and shoulder strap gives users the freedom to perform other tasks when the MC67 is not being used. The MC67 holster and shoulder strap is adjustable to fit users of varying heights and can be used strictly as a belt attachment. | [Image result for Motorola SG-MC5521110-01R](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwiLqoTslqnQAhUI6SYKHVleC5EQjRwIBw&url=http://salestores.com/motorolasymb194.html&psig=AFQjCNErBAJKew0NWY6VlbPVRgEo9aAklg&ust=1479244843754688) |
| **HHT-A Pistol Grip (CLIN 0001AE)** | |
| The MC67 snap-on pistol grip gives users the ability to operate the MC67 (including activating the barcode scanner) in gun configuration. The pistol grip does not require external power. | [Image result for Motorola TRG5500-101R](https://www.barcodesinc.com/motorola/part-trg5500-101r.htm) |
| **HHT-A Rechargeable Battery (CLIN 0001AF)** | |
| The MC67 spare rechargeable battery allows users to continue operations even as the primary battery is drained of charge. The rechargeable battery can be charged either while installed in the MC67 or external to the MC67 using the 4-slot battery charger (CLIN 0001AG). | [Image result for BTRY-MC55EAB02](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjwqPyvmKnQAhXK5CYKHQq8BxoQjRwIBw&url=https://www.barcodesinc.com/motorola/part-btry-mc55eab02-10.htm&psig=AFQjCNF5MzMqI6I7v0nDEjx1EQt9A70xSw&ust=1479245294590057) |
| **HHT-A 4-Slot Battery Charger (CLIN 0001AG)** | |
| The 4-slot battery charger allows units to charge up to 4 batteries at once. The 4-Slot battery charger is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [Image result for SAC5500-4000CR](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwiuqMTVmKnQAhUF6CYKHdL1CGAQjRwIBw&url=http://www.barcode-arena.com/cradles/sac5500-4000cr.html&bvm=bv.138493631,d.amc&psig=AFQjCNH6ulg0JnCGnlMgeQGfYcHm64B9JQ&ust=1479245384714247) |
| **HHT-A Single Slot Battery Charger/Docking Station (CLIN 0001AH)** | |
| The single slot battery charger/docking station allows the MC67 to communicate with a host PC using either an RJ45 Ethernet port or a USB connection and is capable of charging both the battery installed in the MC67 and a spare battery. The single slot battery charger/docking station is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [Image result for Motorola CRD-MC5X-RCHG1-01](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjmyaGZmanQAhXJKiYKHfcUCRsQjRwIBw&url=https://www.barcodesinc.com/motorola/part-crd-mc5x-rchg1-01.htm&bvm=bv.138493631,d.amc&psig=AFQjCNEotFPbELUqhc2QG3X5f-kERYTtGQ&ust=1479245536017687) |
| **HHT-A Replacement Styli (CLIN 0001AJ)** | |
| The MC75A is delivered with a tethered and replacement styli as part of CLIN 0001AA. Replacement styli are available in the event that the stylus and the spare stylus delivered with CLIN 0001AA are rendered unusable. | [Related image](https://www.google.com/imgres?imgurl=http://www.staples-3p.com/s7/is/image/Staples/s0554212_sc7?$splssku$&imgrefurl=http://www.staples.com/MOTOROLA-Spring-Loaded-Tetherable-Stylus/product_IM1K35236&docid=KfXMIQ1aNejcZM&tbnid=hRyUE8Dr8sAiJM:&vet=1&w=380&h=380&bih=783&biw=1600) |
| **HHT-A Replacement Screen Protector (CLIN 0001AK)** | |
| The MC75A is delivered with screen protector installed as part of CLIN 0001AA. Replacement screen protectors are available in the event that the screen protector delivered with CLIN 0001AA is damaged or rendered unusable. | Image Not Available |
| **HHT-A Disabling of Wireless Communications (CLIN 0001AM)** | |
| Wireless communications and AIT have the potential to streamline virtually any logistics process. However, scenarios exist where users will require the use of AIT, but will be restricted from using wireless communications for security or safety reasons. For these customers, the MC75A can be ordered in a configuration that allows users to disable radio usage and password protect the ability to reactivate the radios. Delivery of the MC75A in this configuration includes a wireless CAC reader attachment. | Image Not Available |
| **HHT-A Detachable CAC Reader (CLIN 0001AP)** | |
| The detachable CAC reader allows customers having a requirement for CAC authentication of operations executed using the MC75A, but finding the wireless CAC solution delivered with CLIN 0001AA undesirable to use the MC75A in support of their processes. The detachable CAC reader attaches directly to the base of the MC75A and does not require charging. | [Image result for TSL 1157](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwi1qtiG3K3QAhUOziYKHZ6EAEAQjRwIBw&url=https://www.tsl.com/products/1157-smart-card-reader-motorola-mc55-65-67/&psig=AFQjCNEYg6fvWhX3qFJOgsuo0RHGVYl6Dw&ust=1479400915617268) |
| **HHT-A Bluetooth CAC Reader (CLIN 0001AQ)** | |
| The Apriva BT200Z Bluetooth CAC reader allows customers with a requirement for CAC authentication to use the HHT without a snap-on CAC reader by using an encrypted wireless (Bluetooth connection to the host HHT). The BT200Z is delivered with a charging solution and a cable for pairing to a host HHT. | [http://cdn.barcodesinc.com/images/models/90/Apriva/bt200.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCPHM4OP-jckCFUQ6JgodHJ4JAA&url=http://www.barcodesinc.com/apriva/bt200.htm&bvm=bv.107467506,d.eWE&psig=AFQjCNFY9q6n0K6uR0qXVOrPHqJPfAK4wQ&ust=1447524397166443) |

### CLINs HHT-B

Table 6: HHT-B CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0001BA | Intermec CN70GQ6KN00G1E40 | CN70e with QWERTY keypad (non-incendive) |
| CLIN 0001BB | Intermec SVCCN70-5FC5 | 5-year Service Plan for HHT-B |
| CLIN 0001BC | Intermec SVCCN70-5FC5  Intermec SVCCN70-5FC1R | 7-year Service Plan for HHT-B |
| CLIN 0001BD | Intermec 815-074-101 | Fabric Holster and Shoulder Strap |
| CLIN 0001BE | Intermec 805-835-101 | Detachable Handle and Trigger |
| CLIN 0001BF | Intermec 318-043-112 | Battery Pack CN70/70e |
| CLIN 0001BG | Intermec DX2G4AA20 | 4-Position Battery Charger  **RESERVED** |
| CLIN 0001BH | Intermec DX1G51A20 | Single Slot Battery Charger/Docking Station |
| CLIN 0001BJ | Intermec 203-932-002 | Replacement Styli for CN70e (5/pk) |
| CLIN 0001BK | Intermec 346-069-107 | Replacement Screen Protector (10/pk) |
| CLIN 0001BM | Intermec 850-566-001  Zebra AK17463-008 | Portable Printer Interface Cable (and Adapter) |
| CLIN 0001BN | Intermec 454-029-001  MCSL-1 | Disabling of Wireless Communications for HHT-B |
| CLIN 0001BP | Intermec 850-835-001 | Detachable CAC Reader |
| CLIN 0001BQ | Apriva BT200Z | Bluetooth CAC Reader |

[](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=0ahUKEwjhhITt2KfLAhVBOz4KHYBWDVoQjRwIBw&url=https://dpassupport.golearnportal.org/index.php/support/software-hardware/549-intermec-cn70g-cn70eg-wireless-and-bluetooth&psig=AFQjCNGC6EmTBHrTWTY9BMP6q2MBoW2EgQ&ust=1457203668859799)

Figure 2‑2: Intermec CN70e

### Description of HHT-B (CLIN 0001BA)

The Intermec CN70e is an ultra-rugged mobile computer that combines barcode scanning and mobile computing. The CN70e includes a 3.5-inch color VGA (with LED backlight and touchscreen capability) and is designed to withstand extreme temperature, humidity, and shock while operating in hazardous environments. The table below summarizes the dimensions of the CN70e and the available interfaces.

Table 7: Intermec CN70e Physical Dimensions & Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 7.66 in x 3.15 in x 1.34 in |
| Weight | 17.3 oz |
| Wireless Interfaces | 802.11 a/b/gn  Bluetooth |
| Cable Interfaces | Docking  USB |
| Power Requirements | 3.7V / 4000mAh |
| Separation Requirements | 4 inches from HERO UNSAFE/UNRELIABLE Ordnance  No Separation Distance required when used in Radio Deactivation Mode (See CLIN 0001BM) |

### Included with HHT-B

Included in CLINs 0001BA are 2 GB storage card, stylus, and all required power adapters and cables for components offered with the CN70e. Users are requested to specify the power requirements for the intended geographic area of operations when ordering.

### HHT-B Separately Orderable Components

HHT-B is available with the separately orderable components listed in the table below.

Table 8: HHT-B Separately Orderable Components

|  |  |
| --- | --- |
| **HHT-B Holster and Shoulder Strap (CLIN 0001BD)** | |
| The CN70e holster and shoulder strap gives users the freedom to perform other tasks when the CN70e is not being used. The CN70e holster and shoulder strap is adjustable to fit users of varying heights and can be used strictly as a belt attachment. The holster is pictured as a belt attachment. |  |
| **HHT-B Detachable Handle with Trigger (CLIN 0001BE)** | |
| The detachable handle with trigger snaps easily on or off of the CN70e. The detachable handle with trigger allows users to aim position the barcode imager to read barcodes while allowing them to simultaneously view the CN70e screen. |  |
| **HHT-B Rechargeable Battery (CLIN 0001BF)** | |
| The CN70e spare rechargeable battery allows users to continue operations even as the primary battery is drained of charge. The rechargeable battery is certified non-incendive and can be charged either while installed in the CN70e or external to the CN70e using the 4-slot battery charger (CLIN 0001BG). |  |
| **HHT-B 4-Slot Battery Charger (CLIN 0001BG)** | |
| The 4-slot battery charger allows units to charge up to 4 batteries at once. The 4-Slot battery charger is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. |  |
| **HHT-B Single Slot Battery Charger/Docking Station (CLIN 0001BH)** | |
| The single slot battery charger/docking station allows HHT-B to communicate with a host PC using either an RJ45 Ethernet port or a USB connection and is capable of charging both the battery installed in the CN70e and a spare battery. The single slot battery charger/docking station is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. |  |
| **HHT-B Replacement Styli (CLIN 0001BJ)** | |
| The CN70e is delivered with a tethered and replacement styli as part of CLIN 0001BA. Replacement styli are available in the event that the stylus and the spare stylus delivered with CLIN 0001BA are rendered unusable. |  |
| **HHT-B Replacement Screen Protector (CLIN 0001BK)** | |
| The CN70e is delivered with screen protector installed as part of CLIN 0001BA. Replacement screen protectors are available in the event that the screen protector delivered with CLIN 0001BA is damaged or rendered unusable. | Image Not Available |
| **HHT-B Portable Printer Interface Cable (CLIN 0001BM)** | |
| In some cases users will find it necessary to interface the CN70e with the portable barcode label printer that is offered as part of CLIN 0005AA. CLIN 0001BM provides cables and adapters for connecting the CN70e to the Zebra P4T printer. | **[http://thumbs2.picclick.com/d/l400/pict/261803130965_/ZEBRA-RW420-Printer-Symbol-Motorola-MC9000-G-Mobile-Computer-Cable.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://ie.picclick.com/Computers-Tablets-Networking/Cables-Connectors/Other-Cables-Connectors/?page%3D58&ei=u6VtVaHYD4m8yQT-2oOICg&bvm=bv.94455598,d.aWw&psig=AFQjCNG2OMTJOQIOxfXx9BfwUGPRIRpICA&ust=1433335433693389)** |
| **HHT-B Disabling of Wireless Communications (CLIN 0001BN)** | |
| Wireless communications and AIT have the potential to streamline virtually any logistics process. However, scenarios exist where users will required the use of AIT, but will be restricted from using wireless communications for security or safety reasons. For these customers, the CN70e can be ordered in a configuration that allows users to disable radio usage and password protect the ability to reactivate the radios. | Image Not Available |
| **HHT-B Detachable CAC Reader (CLIN 0001BP)** | |
| The detachable CAC reader allows customers having a requirement for CAC authentication of operations executed using the CN70e, to use the CN70e in support of their processes. The detachable CAC reader attaches directly to the base of the CN70e. | [http://i.ebayimg.com/images/g/E~UAAOSwuMFUdgkC/s-l300.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwj2_tKD06fLAhVLdT4KHQRDBxAQjRwIBw&url=http://www.ebay.com/itm/NEW-Intermec-CAC-Reader-Adapter-for-Series-70-Handhelds-850-835-001-E4-/391021255669&psig=AFQjCNHXHM82I-R-iGT5Ae8n_MRYaxmEPw&ust=1457202055992394) |
| **HHT-B Bluetooth CAC Reader (CLIN 0001BQ)** | |
| The Apriva BT200Z Bluetooth CAC reader allows customers with a requirement for CAC authentication to use the HHT without a snap-on CAC reader by using an encrypted wireless (Bluetooth connection to the host HHT). The BT200Z is delivered with a charging solution and a cable for pairing to a host HHT. | [http://cdn.barcodesinc.com/images/models/90/Apriva/bt200.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCPHM4OP-jckCFUQ6JgodHJ4JAA&url=http://www.barcodesinc.com/apriva/bt200.htm&bvm=bv.107467506,d.eWE&psig=AFQjCNFY9q6n0K6uR0qXVOrPHqJPfAK4wQ&ust=1447524397166443) |

### CLINs HHT-C

Table 9: HHT-C CLINs

**RESERVED**

|  |  |  |
| --- | --- | --- |
| CLIN 0001CA | Motorola MC92N0-G90SXERA5WR | MC92N0 with full keypad and Long Range Imager |
| CLIN 0001CB | Motorola SSE-MC92XX-20-R | 5-year Service Plan for HHT-C |
| CLIN 0001CC | Motorola SSE-MC92XX-40-R | 7-year Service Plan for HHT-C |
| CLIN 0001CD | Motorola SG-MC9121112-01R & Motorola 58-40000-007R | Fabric Holster and Shoulder Strap |
| CLIN 0001CF | Motorola KT-21-61261-01 | Rechargeable Battery |
| CLIN 0001CG | Motorola SAC9000-4000R | 4-Slot Battery Charger |
| CLIN 0001CH | Motorola CRD9000-1001SR | Single Slot Battery Charger/Docking Station |
| CLIN 0001CJ | Motorola KT-81680-03R | Replacement Styli |
| CLIN 0001CK | Motorola KT-151827-03R | Replacement Screen Protector |
| CLIN 0001CM | Motorola ADP9000-110R  Motorola ADP9000-120R  Zebra AK17594-343 | Portable Printer Interface Cable (and Adapters) |
| CLIN 0001CN | Barcodes Inc MCSL-1  **RESERVED** | Disabling of Wireless Communications for HHT-C |
| CLIN 0001CP | Motorola ADP9000-120R  Apriva BT200Z | Detachable CAC Reader |
| CLIN 0001CQ | Apriva BT200Z | Bluetooth CAC Reader |

### [http://cdn.barcodesinc.com/images/models/lg/Motorola/mc9190g.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/motorola/mc9190-g.htm&ei=3rxsVcnSDoSbyQSTyYGgBA&bvm=bv.94455598,d.aWw&psig=AFQjCNGEfDaYO8GplOUL7OcV5gX6QPnngw&ust=1433275989535560)

Figure 2‑3: Motorola MC92N0

### Description of HHT-C (CLIN 0001CA)

The Motorola MC92N0 with long range barcode imager is equipped with a barcode imager capable of reading barcodes that are up to 30 feet away. The MC92N0 is an ultra-rugged mobile computer that combines barcode scanning and mobile computing. The MC92N0 includes a 3.7-inch color VGA (with LED backlight and touchscreen capability) and is designed to withstand extreme temperature, humidity, and shock while operating in hazardous environments. The table below summarizes the dimensions of the MC92N0 and the available interfaces

Table 10: Motorola MC92N0 Physical Dimensions & Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 6 in x 3.3 in x 1.7 in |
| Weight | 15 oz |
| Wireless Interfaces | 802.11 a/b/g  Bluetooth |
| Cable Interfaces | Docking  Serial (when using ADP-9000-120R included in CLIN 0001CA)  USB |
| Power Requirements | 7.2 V / 2200 mAH |
| Separation Requirements | Item is awaiting HERO testing  No Separation Distance required when used in Radio Deactivation Mode (See CLIN 0001CM) |

### Included with HHT-C

Included in CLINs 0001CA are 2 GB storage card, stylus, trigger handle, and all required power adapters and cables for components offered with the MC92N0. Users are requested to specify the power requirements for the intended geographic area of operations when ordering.

### HHT-C Separately Orderable Components

HHT-B is available with the separately orderable components listed in the table below.

Table 11: HHT-C Separately Orderable Components

|  |  |
| --- | --- |
| **HHT-B Holster and Shoulder Strap (CLIN 0001BD)** | |
| The MC92N0 holster and shoulder strap gives users the freedom to perform other tasks when the MC92N0 is not being used. The MC92N0 holster and shoulder strap is adjustable to fit users of varying heights and can be used strictly as a belt attachment. The holster is pictured as a belt attachment. | [http://cdn.barcodesinc.com/images/models/lg/Motorola/mc9000-g-holster.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/motorola/part-sg-mc9121112-01r.htm&ei=KZ9tVcHhIomlyQSsqYPwDg&bvm=bv.94455598,d.aWw&psig=AFQjCNHq_vdioCned3_3Ax5vVbZ5ZPPS7g&ust=1433333920538336) |
| **HHT-B Rechargeable Battery (CLIN 0001BF)** | |
| The MC92N0 spare rechargeable battery allows users to continue operations even as the primary battery is drained of charge. The rechargeable battery can be charged either while installed in the MC92N0 or external to the MC92N0 using the 4-slot battery charger (CLIN 0001CG). | [http://cdn.barcodesinc.com/images/models/lg/Impact/ipt-mc9000-li.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/impact/part-ipt-mc9000-li.htm&ei=FLRtVZXuBouHyATkv4DwBg&bvm=bv.94455598,d.aWw&psig=AFQjCNEx0zFalSK4w9Asrc8ceBfztXNLww&ust=1433339138499076) |
| **HHT-B 4-Slot Battery Charger (CLIN 0001BG)** | |
| The 4-slot battery charger allows units to charge up to 4 batteries at once. The 4-Slot battery charger is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [http://cdn.barcodesinc.com/images/models/lg/Symbol/spex-sac9000-4000r.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/symbol/part-sac9000-4000r.htm&ei=xqBtVc2IGsSxyATPooPIDw&bvm=bv.94455598,d.aWw&psig=AFQjCNFC-fpqOIkuF6ul8iG5MISOfpzxtg&ust=1433334304992504) |
| **HHT-B Single Slot Battery Charger/Docking Station (CLIN 0001BH)** | |
| The single slot battery charger/docking station allows HHT-B to communicate with a host PC using either an RJ45 Ethernet port or a USB connection and is capable of charging both the battery installed in the MC92N0 and a spare battery. The single slot battery charger/docking station is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [http://cdn.barcodesinc.com/images/models/lg/Symbol/spex-crd9000-1001sr.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/symbol/part-crd9000-1001sr.htm&ei=M6FtVaK2EoH2yQSX_IHoCQ&bvm=bv.94455598,d.aWw&psig=AFQjCNHinQaiFrW6p9i1AmiqUqhLi6guEQ&ust=1433334426371056) |
| **HHT-B Replacement Styli (CLIN 0001BJ)** | |
| The MC92N0 is delivered with a tethered and replacement styli as part of CLIN 0001BA. Replacement styli are available in the event that the stylus and the spare stylus delivered with CLIN 0001BA are rendered unusable. | [http://cdn.barcodesinc.com/images/models/md/Symbol/stylus.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/symbol/part-kt-81680-03r.htm&ei=uaFtVYXECsG2yATVmIHwAg&bvm=bv.94455598,d.aWw&psig=AFQjCNFpIEX-BPpdfmLI1rL--jZ0_ZSTjQ&ust=1433334559701333) |
| **HHT-B Replacement Screen Protector (CLIN 0001BK)** | |
| The MC92N0 is delivered with screen protector installed as part of CLIN 0001BA. Replacement screen protectors are available in the event that the screen protector delivered with CLIN 0001BA is damaged or rendered unusable. | Image Not Available |
| **HHT-B Portable Printer Interface Cable (CLIN 0001BM)** | |
| In some cases users will find it necessary to interface the MC92N0 with the portable barcode label printer that is offered as part of CLIN 0005AA. CLIN 0001BM provides cables and adapters for connecting the MC92N0 to the Zebra P4T printer. | **[http://thumbs2.picclick.com/d/l400/pict/261803130965_/ZEBRA-RW420-Printer-Symbol-Motorola-MC9000-G-Mobile-Computer-Cable.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://ie.picclick.com/Computers-Tablets-Networking/Cables-Connectors/Other-Cables-Connectors/?page%3D58&ei=u6VtVaHYD4m8yQT-2oOICg&bvm=bv.94455598,d.aWw&psig=AFQjCNG2OMTJOQIOxfXx9BfwUGPRIRpICA&ust=1433335433693389)** **[http://cdn.barcodesinc.com/images/models/lg/Symbol/spex-adp9000-110r.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/symbol/part-adp9000-110r.htm&ei=nKZtVbigHY6WygTxwIMQ&bvm=bv.94455598,d.aWw&psig=AFQjCNEhMJJCNt4NBsE2szcdscGA6xZSfg&ust=1433335800944484)** |
| **HHT-B Disabling of Wireless Communications (CLIN 0001BN)** | |
| Wireless communications and AIT have the potential to streamline virtually any logistics process. However, scenarios exist where users will required the use of AIT, but will be restricted from using wireless communications for security or safety reasons. For these customers, the MC92N0-G can be ordered in a configuration that allows users to disable radio usage and password protect the ability to reactivate the radios. | Image Not Available |
| **HHT-B Detachable CAC Reader (CLIN 0001BP)** | |
| The detachable CAC reader allows customers having a requirement for CAC authentication of operations executed using the MC92N0, but finding the wireless CAC solution delivered with CLIN 0001BA undesirable to use the MC92N0 in support of their processes. The detachable CAC reader attaches directly to the base of the MC92N0. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | C:\Users\scatamacchiat\Desktop\AIT V Deliverables\User_Guide\Delivered\Delivered\ADP9000-120R.JPG |
| **HHT-B Bluetooth CAC Reader (CLIN 0001BQ)** | |
| The Apriva BT200Z Bluetooth CAC reader allows customers with a requirement for CAC authentication to use the HHT without a snap-on CAC reader by using an encrypted wireless (Bluetooth connection to the host HHT). The BT200Z is delivered with a charging solution and a cable for pairing to a host HHT. | [http://cdn.barcodesinc.com/images/models/90/Apriva/bt200.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCPHM4OP-jckCFUQ6JgodHJ4JAA&url=http://www.barcodesinc.com/apriva/bt200.htm&bvm=bv.107467506,d.eWE&psig=AFQjCNFY9q6n0K6uR0qXVOrPHqJPfAK4wQ&ust=1447524397166443) |

### HHT-D CLINs

Table 12: HHT-D CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0001DA | Motorola MC92N0- G50SYEQA6WR | MC92N0 with full keypad and Direct Part Mark Imager |
| CLIN 0001DB | Motorola SSE-MC92XX-20-R | 5-year Service Plan for HHT-D |
| CLIN 0001DC | Motorola SSEMC92XX-40-R  **RESERVED** | 7-year Service Plan for HHT-D |
| CLIN 0001DD | Motorola SG-MC9121112-01R & Motorola 58-40000-007R | Fabric Holster and Shoulder Strap |
| CLIN 0001DF | Motorola KT-21-61261-01 | Rechargeable Battery |
| CLIN 0001DG | Motorola SAC9000-4000R | 4-Slot Battery Charger |
| CLIN 0001DH | Motorola CRD9000-1001SR | Single Slot Battery Charger/Docking Station |
| CLIN 0001DJ | Motorola KT-81680-03R | Replacement Styli |
| CLIN 0001DK | Motorola KT-151827-03R  **RESERVED** | Replacement Screen Protector |
| CLIN 0001DM | Motorola ADP9000-110R  Motorola ADP9000-120R  Zebra AK17594-343 | Portable Printer Interface Cable (and Adapters) |
| CLIN 0001DN | Barcodes Inc MCSL-1 | Disabling of Wireless Communications for HHT-D |
| CLIN 0001DP | Motorola ADP9000-120R  Apriva BT200Z | Detachable CAC Reader |
| CLIN 0001DQ | Apriva BT200Z | Bluetooth CAC Reader |

### Description of HHT-D (CLIN 0001DA)

The Motorola MC92N0 with Direct Part Mark (DPM) imager is identical in form factor to the MC92N0 with extended range imager (shown above in Figure 2-3) but is equipped with a barcode imager capable of reading serialization markings applied directly to an item. The MC92N0 is an ultra-rugged mobile computer that combines barcode scanning and mobile computing. The MC92N0 includes a 3.7-inch color VGA (with LED backlight and touchscreen capability) and is designed to withstand extreme temperature, humidity, and shock while operating in hazardous environments. The table below summarizes the dimensions of the MC92N0 and the available interfaces.

Table 13: Motorola MC92N0 Physical Dimensions and & Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 6 in x 3.3 in x 1.7 in |
| Weight | 15 oz |
| Wireless Interfaces | 802.11 a/b/g  Bluetooth |
| Cable Interfaces | Docking  Serial (when using ADP-9000-120R included in CLIN 0001DA)  USB |
| Power Requirements | 7.2 V / 2200 mAh |
| Separation Requirements | Item is awaiting HERO testing  No Separation Distance required when used in Radio Deactivation Mode (See CLIN 0001DM) |

### Included with HHT-D:

Included in CLINs 0001DA are 2 GB storage card, stylus, trigger handle, and all required power adapters and cables for components offered with the MC92N0. Users are requested to specify the power requirements for the intended geographic area of operations when ordering.

### HHT-D Separately Orderable Components

All separately orderable component CLINs for HHT-D are identical in form and function to those supporting HHT-C, and are detailed in Table 11 above.

### HHT-E CLINs:

Table 14: HHT-E CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0001 EA | Panasonic FZ-G1P5-00VM | Ruggedized FZ-G1 Tablet with 10.1 inch Touchscreen |
| CLIN 0001 EB | Panasonic FZ-SVCTPNF3Y | 5-year Service Plan for HHT-E |
| CLIN 0001 EC | Panasonic FZ-SVCTPNF4Y | 7-year Service Plan for HHT-E |
| CLIN 0001 ED | Panasonic TBCSHSTRP-P | Shoulder Strap |
| CLIN 0001 EF | Panasonic FZ-VZSU84U | Rechargeable Battery |
| CLIN 0001 EG | Panasonic FZ-LND3BAYG1 | Multiple Battery Charger |
| CLIN 0001EH | Panasonic FZ-VEBG11AU | Single Slot Battery Charger/Docking Station |
| CLIN 0001EJ | Panasonic FZ-VNPG11U | Replacement Styli |
| CLIN 0001EK | Panasonic FZ-VPFG11U | Replacement Screen Protector |
| CLIN 0001EM | Zebra AK18666-4 | Portable Printer Interface Cable |
| CLIN 0001EN | Panasonic TBCG1XSTP-P  Panasonic FZ-WCGG111 | Detachable Hand Strap |
| CLIN 0001EP | Panasonic TBCG1MBBDL-P  Panasonic FZ-WCGG111 | Carrying Case |

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://business.panasonic.co.uk/computer-product/toughpad/fz-g1&ei=N0ZuVaHeLpGzyQT214Bg&bvm=bv.94911696,d.aWw&psig=AFQjCNF2K3-RDM6UCElnVeljyWzvLSJOEA&ust=1433376679510780)

Figure 2‑4: Panasonic FZ-G1

### Description of HHT-E (CLIN 0001EA)

The Panasonic FZ-G1 Toughbook Tablet is designed to put processing speed and connectivity in the hands of field workers. The highly ruggedized tablet includes a 10.1-inch color VGA, an Intel Core processor, a barcode scanner, and is equipped with a design that is IP65 certified and has passed many MIL-STD-810 tests for survivability. The Panasonic FZ-G1 has been certified for use in hazardous locations (Minimum Class 1, Division 2, Groups A, B, C, and D). The table below summarizes the dimensions of the FZ-G1 and the available interfaces.

Table 15: Panasonic FZ-G1 Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 10.6 in x 7.4 in x 0.8 in |
| Weight | 2.4 lbs |
| Wireless Interfaces | 802.11 a/b/g/n/ac  Bluetooth |
| Cable Interfaces | Docking  USB |
| Power Requirements | 10.8V / 4400 mAh |
| Separation Requirements | Item has been evaluated for HERO by USAF and is safe for all distances up to, but not including touching  No Separation Distance required when used in Radio Deactivation Mode |

### Included with HHT-E

Included in CLINs 0001EA are an integrated CAC reader, barcode reader, stylus, touchscreen monitor, integrated 802.11 radio, and integrated USB 3.0 port. CLIN 0001EA is delivered with a manufacturer 3-Year warranty, (extended warranties of 5 and 7 years are available as CLIN 0001EB and CLIN 0001EC respectively). CLIN 0001EA is delivered with all required power adapters and cables for components offered as part of the CLIN 0001EA. Users are requested to specify the power requirements for the intended geographic area of operations when ordering.

### HHT-E Separately Orderable Components

HHT-E is available with the separately orderable components listed in the table below.

Table 16: HHT-E Separately Orderable Components

|  |  |
| --- | --- |
| **HHT-E Shoulder Strap (CLIN 0001ED)** | |
| The Panasonic FZ-G1 shoulder strap gives users the freedom to perform other tasks when the FZ-G1 is not being used. The G1 shoulder strap is adjustable to fit users of varying heights. | [http://images10.newegg.com/ProductImageCompressAll300/34-990-425-02.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.newegg.com/Product/Product.aspx?Item%3DN82E16834990425&ei=CAFuVdPDG4u1yQTm_IHgAQ&bvm=bv.94911696,d.aWw&psig=AFQjCNEI7G37eZxRLEE2RPMmOYnZC0NS0A&ust=1433358965235520) |
| **HHT-B Rechargeable Battery (CLIN 0001EF)** | |
| The Panasonic FZ-G1 spare rechargeable battery allows users to continue operations even as the primary battery is drained of charge. The rechargeable battery can be charged either while installed in the FZ-G1 or external to the FZ-G1 using the multiple battery charger (CLIN 0001EG). | [http://images.panasonic.com/static/models/fz-vzsu84u.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.panasonic.com/business/toughbook-accessories/FZ-VZSU84U.asp&ei=MwJuVaWnLIv6yASUpIDQDA&bvm=bv.94911696,d.aWw&psig=AFQjCNGzRXuPRSbFK_dmRqF_JIP_q8JcyA&ust=1433359241860148) |
| **HHT-E Multiple Battery Charger (CLIN 0001EG)** | |
| The multiple battery charger allows users to charge up to 3 batteries at once. The multiple slot battery charger is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [http://www.ingramt.com/v/vspfiles/photos/FZ-LND3BAYG1-2T.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCNuKoYnK_sYCFUKgPgod1bAMNw&url=http://www.ingramt.com/product-p/fz-lnd3bayg1.htm&ei=ddq3VZv8EcLA-gHV4bK4Aw&bvm=bv.98717601,d.dmo&psig=AFQjCNE_TZALRTRwNVHncVsFzeOjzwnnQA&ust=1438198724148511) |
| **HHT-E Single Slot Battery Charger/Docking Station (CLIN 0001EH)** | |
| The single slot battery charger/docking station allows the FZ-G1 Tablet to communicate with a host PC using either an RJ45 Ethernet port or a USB connection and is capable of charging the battery installed in the FZ-G1 Tablet. In addition to Ethernet and USB connectivity the single slot battery charger/docking station is also equipped with a VGA port and HDMI port. The single slot battery charger/docking station is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [http://cdn3.volusion.com/mlykj.ysgry/v/vspfiles/photos/FZ-VEBG11U-2.jpg?1429345176](http://www.magnumelectronics.com/Panasonic-FZ-G1-Dock-p/fz-vebg11u.htm) |
| **HHT-E Replacement Styli (CLIN 0001EJ)** | |
| The Panasonic FZ-G1 Tablet is delivered with a stylus as part of CLIN 0001EA. Replacement styli are available in the event that the stylus delivered with CLIN 0001EA are rendered unusable. | [http://cdn.barcodesinc.com/images/models/lg/Panasonic/spex-fz-vnpg11u.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/panasonic/part-fz-vnpg11u.htm&ei=sQZuVdsxxajIBNOuguAH&bvm=bv.94911696,d.aWw&psig=AFQjCNEQjasWAQd2TM5Ok6MZcjw4tuUGBA&ust=1433360410247124) |
| **HHT-E Replacement Screen Protector (CLIN 0001EK)** | |
| The Panasonic FZ-G1 is delivered with screen protector installed as part of CLIN 0001EA. Replacement screen protectors are available in the event that the screen protector delivered with CLIN 0001EA is damaged or rendered unusable. | Image Not Available |
| **HHT-E Portable Printer Interface Cable (CLIN 0001EM)** | |
| In some cases users will find it necessary to interface the Panasonic FZ-G1 Tablet with the portable barcode label printer that is offered as part of CLIN 0005AA. CLIN 0001EM allows users to connect the Panasonic FZ-G1 Tablet to the Zebra P4T printer. |  |
| **HHT-E Detachable Hand Strap (CLIN 0001EN)** | |
| Users will find the Panasonic FZ-G1 detachable hand strap useful when looking to enter data during field operations. The hand strap provides the user with a firmer grip on the tablet than he or she might otherwise have and helps to ensure proper data entry and transaction execution. | [http://images.panasonic.com/static/models/tbcg1xstp-p.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.panasonic.com/business/toughbook-accessories/TBCG1XSTP-P.asp&ei=eAhuVZuOGoWxyAT7gILgBw&bvm=bv.94911696,d.aWw&psig=AFQjCNFLIrojk4jpZkjlXvIH0ey_zATJnA&ust=1433360862038574) |
| **HHT-E Carrying Case (CLIN 0001EP)** | |
| The Panasonic FZ-G1 carrying case provides users with a method of transporting the FZ-G1 when it is not in use. | [http://webobjects2.cdw.com/is/image/CDW/3289324?$product_230$](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.cdw.com/shop/products/Infocase-Mobility-Bundle-accessory-kit/3289324.aspx&ei=GQluVZ7ILtiAygTKsYGIBw&bvm=bv.94911696,d.aWw&psig=AFQjCNER4tuNQGn8SIFtybDLkKfV2ttMiQ&ust=1433361025103735) |

### HHT-F CLINs

Table 17: HHT-F CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0001 FA | Panasonic FZ-M1FP05XVM | Ruggedized FZ-M1 Tablet with 7 inch Touchscreen |
| CLIN 0001 FB | Panasonic FZ-SVCTPNF3Y | 5-year Service Plan for HHT-F |
| CLIN 0001 FC | Panasonic FZ-SVCTPNF4Y | 7-year Service Plan for HHT-F |
| CLIN 0001 FD | Panasonic TBCM1SSTP-P | Shoulder Strap |
| CLIN 0001 FF | Panasonic FZ-VZSU94W | Rechargeable Battery |
| CLIN 0001 FG | Panasonic FZ-VCBM11U | Multiple Battery Charger |
| CLIN 0001 FH | Panasonic FZ-VEBM12U | Single Slot Battery Charger/Docking Station |
| CLIN 0001 FJ | Panasonic FZ-VNPM11U | Replacement Styli |
| CLIN 0001 FK | Panasonic FZ-VPFM11U | Replacement Screen Protector |
| CLIN 0001 FM | Zebra AK18666-4 | Portable Printer Interface Cable |
| CLIN 0001 FN | Panasonic FZ-VSTM12U | Detachable Hand Strap |
| CLIN 0001 FP | Panasonic TBCM1AO-P | Carrying Case |

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/panasonic/fz-m1.htm&ei=JEhuVfCYLJesyASsuoIg&bvm=bv.94911696,d.aWw&psig=AFQjCNHzpgLO22v63OWrD5kXXvZfLJewPg&ust=1433377168205336)

Figure 2‑5: Panasonic FZ-M1

### Description of HHT-F (CLIN 0001FA)

The Panasonic FZ-M1 Toughbook Tablet is a highly configurable ruggedized tablet that is designed to ensure mission critical productivity regardless of the environment. The highly ruggedized tablet includes a 7-inch color VGA, an Intel Core processor, a barcode scanner, and is equipped with a design that is IP65 certified and has passed many MIL-STD-810 tests for survivability. The Panasonic FZ-M1 has been certified for use in hazardous locations (Minimum Class 1, Division 2, Groups A, B, C, and D). The table below summarizes the dimensions of the FZ-M1 and the available interfaces.

Table 18: Panasonic FZ-M1 Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 7.98 in x 5.2 in x 0.71 in |
| Weight | 1.2 lbs |
| Wireless Interfaces | 802.11 a/b/g/n/ac  Bluetooth |
| Cable Interfaces | Docking  Serial  USB |
| Power Requirements | 7.2V / 3220 mAh |
| Separation Requirements | Item is awaiting HERO testing  No Separation Distance required when used in Radio Deactivation Mode |

### Included with HHT-F

Included in CLINs 0001FA are an integrated CAC reader, barcode reader, stylus, bridge battery, touchscreen monitor, integrated 802.11 radio and digital camera. CLIN 0001FA is delivered with a manufacturer 3-Year warranty, (extended warranties of 5 and 7 years are available as CLIN 0001FB and CLIN 0001FC respectively). CLIN 0001FA is delivered with all required power adapters and cables for components offered as part of the CLIN 0001FA. Users are requested to specify the power requirements for the intended geographic area of operations when ordering.

### HHT-F Separately Orderable Components

HHT-F is available with the separately orderable components listed in the table below.

Table 19: HHT-F Separately Orderable Components

|  |  |
| --- | --- |
| **HHT-F Shoulder Strap (CLIN 0001FD)** | |
| The Panasonic FZ-M1 shoulder strap gives users the freedom to perform other tasks when the FZ-M1 is not being used. The FZ-M1 shoulder strap is adjustable to fit users of varying heights. | Image Not Available |
| **HHT-F Rechargeable Battery (CLIN 0001FF)** | |
| The Panasonic FZ-M1 spare rechargeable battery allows users to continue operations even as the primary battery is drained of charge. The rechargeable battery can be charged either while installed in FZ-M1 or external to the FZ-M1 using the multiple battery charger (CLIN 0001FG). | [http://cdn3.volusion.com/mlykj.ysgry/v/vspfiles/photos/FZ-VZSU94W-2.jpg?1429353346](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.magnumelectronics.com/Panasonic-FZ-M1-Standard-Battery-p/fz-vzsu94w.htm&ei=-1FuVb-wGYj1yATDqIDYDg&bvm=bv.94911696,d.aWw&psig=AFQjCNFX3Kwt-Pyi0zrDmBqtM_o4_X0Uzw&ust=1433379633657748) |
| **HHT-F Multiple Battery Charger (CLIN 0001FG)** | |
| The multiple battery charger allows users to charge up to 4 FZ-M1 batteries at once. The multiple slot battery charger is delivered with a 100-240 VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [http://images.panasonic.com/static/models/fz-vcbm11u.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.panasonic.com/business/toughbook-accessories/FZ-VCBM11U.asp&ei=A1NuVYCTNIX8yQTO8oDQCQ&psig=AFQjCNGy_HqoIICeEYmXBcQ4PMa7Gpxmog&ust=1433379933644002) |
| **HHT-F Single Slot Battery Charger/Docking Station (CLIN 0001FH)** | |
| The single slot battery charger/docking station allows Panasonic FZ-M1 to communicate with a host PC using either an RJ45 Ethernet port or a USB connection and is equipped with a VGA port and an HDMI port. The single slot battery charger/docking station is delivered with a 100-240 VAC power supply and is capable of charging both the battery installed in the FZ-M1 and a spare battery. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [http://images.panasonic.com/static/models/fz-vebm11u.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.panasonic.com/business/toughbook-accessories/FZ-VEBM11U.asp&ei=d1NuVdL_PIi0yASiz4OgDA&psig=AFQjCNEL1VJEmFTH5LnK7XnVeA_YmGhcnw&ust=1433380079140247) |
| **HHT-F Replacement Styli (CLIN 0001FJ)** | |
| The Panasonic FZ-M1 is delivered with a stylus as part of CLIN 0001FA. Replacement styli are available in the event that the stylus delivered with CLIN 0001FA are rendered unusable. | [http://cdn.barcodesinc.com/images/models/lg/Panasonic/spex-fz-vnpg11u.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/panasonic/part-fz-vnpg11u.htm&ei=VlRuVfm0I8eCyQTg7oLQDA&psig=AFQjCNG5WEwpGjY6cZp5jipRKv6qmWc_PA&ust=1433380275591340) |
| **HHT-F Replacement Screen Protector (CLIN 0001FK)** | |
| The Panasonic FZ-M is delivered with screen protector installed as part of CLIN 0001FA. Replacement screen protectors are available in the event that the screen protector delivered with CLIN 0001FA is damaged or rendered unusable. | Image Not Available |
| **HHT-F Portable Printer Interface Cable (CLIN 0001FM)** | |
| In some cases users will find it necessary to interface the Panasonic FZ-M1 with the portable barcode label printer that is offered as part of CLIN 0005AA. CLIN 0001EM allows users to connect the Panasonic FZ-M1 Tablet to the Zebra P4T printer. |  |
| **HHT-F Detachable Hand Strap (CLIN 0001FN)** | |
| Users will find the Panasonic FZ-M1 detachable hand strap useful when looking to enter data during field operations. The hand strap provides the user with a firmer grip on the tablet than he or she might otherwise have and helps to ensure proper data entry and transaction execution. | [http://ecx.images-amazon.com/images/I/41EdozTuCPL._SX466_.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.amazon.com/PANASONIC-Panasonic-Fz-Vstm12u-Rotating-Strap/dp/B00JCRY4BS&ei=E1VuVb3mLJSjyATnkYKwCA&psig=AFQjCNHspvcaMdkAcCtjVvLNDmN2TWtmKw&ust=1433380474980773) |
| **HHT-F Carrying Case (CLIN 0001FP)** | |
| The Panasonic FZ-M1 carrying case provides users with a method of transporting FZ-M1 when it is not in use. | [https://webobjects2.cdw.com/is/image/CDW/3448789?$product_230$](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=https://www.cdw.com/shop/products/InfoCase-Toughmate-Always-On-Case-protective-cover-for-tablet/3448789.aspx&ei=y1VuVYGnB4H2yQSyp4PoCg&psig=AFQjCNGbyGPM7ENwrPO1Iv_DfdOnkfC2Jw&ust=1433380622289454) |

### HHT-G CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 2001 GA | Juniper Systems MS2-202-HL | Ruggedized MS2 Tablet with 7 inch Touchscreen (NI Certified) |
| CLIN 2001 GB | Juniper Systems 26422 | 5-year Service Plan for HHT-G |
| CLIN 2001 GD | Juniper Systems 12867 | Shoulder Strap |
| CLIN 2001 GF | Juniper Systems 25260 | Rechargeable Battery |
| CLIN 2001 GG | Juniper Systems 25679 | Single Battery Charger |
| CLIN 2001 GH | Juniper Systems 26362 | Single Slot Battery Charger/Docking Station |
| CLIN 2001 GJ | Juniper Systems 25676 | Replacement Styli |
| CLIN 2001 GK | Juniper Systems 25633 | Replacement Screen Protector |
| CLIN 2001 GM | Zebra AK 18666-4 | Portable Printer Interface Cable |
| CLIN 2001 GN | Not Offered | Disable All Wireless Comms |
| CLIN 2001 GP | Apriva BT200Z (with cable) | Detachable CAC Reader |
| CLIN 2001GQ | Apriva BT200Z | BT CAC Reader |
| CLIN 2001GR | Juniper Systems 25320 | Detachable Hand Strap |
| CLIN 2001GS | Juniper Systems 25677 | Carrying Case |

[](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwjt3omf7MDcAhWtc98KHYTEARQQjRx6BAgBEAU&url=https://www.fondriest.com/juniper-systems-mesa-2-rugged-tablet-computers.htm&psig=AOvVaw1AwjzD0obRnmdi5xI1TGOT&ust=1532834663848606)

Figure 2‑6: Juniper Mesa 2

### Description of HHT-G (CLIN 0001GA)

The Juniper Mesa 2 Tablet is a highly configurable ruggedized tablet that is designed to ensure mission critical productivity regardless of the environment. The highly ruggedized tablet includes a 7-inch color VGA, an Intel quadcore processor, a barcode scanner, and is equipped with a design that is IP68 certified and has passed many MIL-STD-810 tests for survivability. The Juniper Meas 2 has been certified as non-incendive (NI) for use in hazardous locations.

|  |  |
| --- | --- |
| Physical Dimensions | 5.4 in x 8.48 in x 1.36 in |
| Weight | 1.75 lbs |
| Wireless Interfaces | 802.11 a/b/g/n  Bluetooth  4G LTE |
| Cable Interfaces | Docking  HDMI  USB |
| Power Requirements | 43.2 Whr |
| Separation Requirements | Item is awaiting HERO testing |

### Included with HHT-G

Included in CLINs 0001GA are a barcode reader, stylus, touchscreen monitor, integrated 802.11 radio, and integrated USB 3.0 port. CLIN 0001GA is delivered with a manufacturer 3-Year warranty, (extended warranties of 5 years are available as CLIN 0001GB). CLIN 0001GA is delivered with all required power adapters and cables for components offered as part of the CLIN 0001GA. Users are requested to specify the power requirements for the intended geographic area of operations when ordering.

### HHT-G Separately Orderable Components

HHT-G is available with the separately orderable components listed in the table below.

Table 20: HHT-G Separately Orderable Components

|  |  |
| --- | --- |
| **HHT-G Shoulder Strap (CLIN 0001GD)** | |
| The Juniper Systems Mesa 2 shoulder strap gives users the freedom to perform other tasks when the Mesa 2 is not being used. The Mesa 2 shoulder strap is adjustable to fit users of varying heights. | Image Not Available |
| **HHT-G Rechargeable Battery (CLIN 0001GF)** | |
| The Juniper Systems Mesa 2 spare rechargeable battery allows users to continue operations even as the primary battery is drained of charge. The rechargeable battery can be charged either while installed in Mesa 2 or external to the Mesa 2 using the single battery charger (CLIN 0001FG). | [Image result for Juniper Systems 25260](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwi8vJzr3cncAhWro1kKHdqPA3sQjRx6BAgBEAU&url=https://www.ruggedcomputing.com.au/Juniper-Systems-Mesa-2-Removable-Li-ion-Battery-p/mesa2-25260.htm&psig=AOvVaw1pwvehmpf98WYhUCkmASug&ust=1533140025626937) |
| **HHT-F Multiple Battery Charger (CLIN 0001GG)** | |
| The single battery charger allows users to charge Mesa 2 batteries while not in use. The multiple slot battery charger is delivered with the appropirate VAC power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | Image Not Available |
| **HHT-G Single Slot Battery Charger/Docking Station (CLIN 0001GH)** | |
| The single slot battery charger/docking station allows Juniper Systems Mesa 2 to communicate with a host PC using either an USB connection and is equipped with an HDMI port. The single slot battery charger/docking station is delivered with a VAC power supply and is capable of charging the battery installed in the Mesa 2. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [Image result for Juniper Systems 26362](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwj2kLWy38ncAhVju1kKHYSiAG0QjRx6BAgBEAU&url=https://www.ruggedcomputing.com.au/Juniper-Systems-Mesa-2-Office-Docking-Station-p/mesa2-26362.htm&psig=AOvVaw21E-EZ0eOKi4srupzjPq6e&ust=1533140451614734) |
| **HHT-G Replacement Styli (CLIN 0001FJ)** | |
| The Juniper Systems Mesa 2 is delivered with a stylus as part of CLIN 0001GA. Replacement styli are available in the event that the stylus delivered with CLIN 0001GA are rendered unusable. | [Image result for Juniper Systems 25676](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwj0_4by38ncAhWBr1kKHTpeCW0QjRx6BAgBEAU&url=http://shop.junipersys.com/mesa-2/replacement-accessories/small-tip-capacitive-stylus-and-tether/&psig=AOvVaw1mwaciYWTVNFA93MIrMuMd&ust=1533140579302262) |
| **HHT-G Replacement Screen Protector (CLIN 0001GK)** | |
| The screen protector for the Juniper Mesa 2 is available as a separately orderable component. | Image Not Available |
| **HHT-G Portable Printer Interface Cable (CLIN 0001GM)** | |
| In some cases users will find it necessary to interface the Juniper Mesa 2 with the portable barcode label printer that is offered as part of CLIN 0005AA. CLIN 0001GM allows users to connect the Juniper Systems Mesa 2 Tablet to the Zebra P4T printer. |  |
| **HHT-G Detachable CAC Reader & BT CAC Reader (CLIN 0001GP & 0001GQ)** | |
| The Apriva BT200Z Bluetooth CAC reader allows customers with a requirement for CAC authentication to use the HHT without a snap-on CAC reader by using an encrypted wireless (Bluetooth connection to the host HHT). The BT200Z is delivered with a charging solution and a cable for pairing to a host HHT and can be used either in BT mode or connected via USB. | [http://cdn.barcodesinc.com/images/models/90/Apriva/bt200.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCPHM4OP-jckCFUQ6JgodHJ4JAA&url=http://www.barcodesinc.com/apriva/bt200.htm&bvm=bv.107467506,d.eWE&psig=AFQjCNFY9q6n0K6uR0qXVOrPHqJPfAK4wQ&ust=1447524397166443) |
| **HHT-G Detachable Hand Strap (CLIN 0001GR)** | |
| Users will find the Juniper Mesa 2 detachable hand strap useful when looking to enter data during field operations. The hand strap provides the user with a firmer grip on the tablet than he or she might otherwise have and helps to ensure proper data entry and transaction execution. | Image Not Available |
| **HHT-G Carrying Case (CLIN 0001GS)** | |
| The Juniper Mesa 2 carrying case provides users with a method of transporting FZ-M1 when it is not in use. | [Image result for Juniper Systems 25677](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwje5Yud4cncAhUStlkKHXHLAHgQjRx6BAgBEAU&url=https://www.ruggedcomputing.com.au/Juniper-Systems-Mesa-2-Flip-Cover-Fitted-Case-p/mesa2-25677.htm&psig=AOvVaw3ksjD0MLR8NRsBw-RY0pOU&ust=1533140941885534) |

## Barcode Imagers

### Overview

The desktop barcode imager is a low cost way to reduce manual data entry in virtually any business process. These devices are typically light weight, highly durable and operate via USB or Bluetooth connection with a nearby workstation. Input from the desktop barcode imager can be received by the workstation as keyboard input, making it extremely easy for users to populate standardized forms or transactions screens with barcode data in an instant.

### Barcode Scanning/Imaging Device CLINs

Table 21: Barcode Scanning /Imaging CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0003AA | Zebra DS3608- SR00CC3VTNA | Corded Rugged1D/2D Barcode Imager |
| CLIN 0003AB | Zebra DS3678-SR0FCC3VTNA | Cordless Rugged 1D/2D Barcode Imager |
| CLIN 0003AC | Zebra DS3608-SR00CC3VTNA | Corded Rugged 1D/2D Barcode Imager with IUID and DPM Capability |
| CLIN 0003AD | Zebra DS3608-DP20CCVTNA | Corded Rugged 1D/2D Barcode Imager with IUID and DPM Capability |



Figure 2‑7: Zebra DS3608 Barcode Scanner

### Description of Imager for PC Input – General Barcode/Tethered (CLIN 0003AA)

The Zebra DS3608-SR is a ruggedized barcode imaging device that reads many of the printed symbologies used by the Federal Government and by commercial industry. The DS3608-SR is configurable as a keyboard wedge and as a direct serial input device with USB connector and is delivered with a 3-year warranty. The DS3608-SR is pictured in the figure above.

Table 22: Motorola DS3608-SR Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 7.3 in x 3.0 in x 5.2 in |
| Weight | 10.8 oz |
| Interfaces | USB |
| Power Requirements | 5V/340mA |
| Separation Requirements | None |

### Description of Imager for PC Input – General Barcode/Bluetooth (CLIN 0003AB)

The Zebra DS3678-SR is a ruggedized barcode imaging device that reads many of the printed symbologies used by the Federal Government and by commercial industry. The DS3678-SR is configurable as a keyboard wedge and communicates with its base station wirelessly via a FIPS 140-2 encrypted Bluetooth interface (the base station communications with the host PC via USB). The DS3678-SR is delivered with a 3-year warranty. The form factor of the DS3678-SR is virtually identical to the DS3678-SR pictured above.

Table 23: Motorola DS3678 Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 7.34 in x 3.0 in x 5.6 in |
| Weight | 14.4 oz |
| Interfaces | Bluetooth (imager to base station)  USB (base station to host PC) |
| Power Requirements (cradle only) | 11.4-12.6 VDC  105 mA at 5V (not charging)  110 mA at 9V (not charging)  915 mA at 5V (fast rate charge)  660 mA at 9V (fast rate charge)  480 mA at 5V (slow rate charge)  345 mA at 9V (slow rate charge) |
| Separation Requirements | Item is awaiting HERO testing |

### Description of Imager for PC Input – IUID Markings (CLIN 0003AC)

CLIN 0003AC is identical to CLIN 0003AA described above.

### Description of Imager for PC Input – IUID DPM (CLIN 0003AD)

The Zebra DS3608-SR is a ruggedized barcode imaging device that reads many of the printed symbologies used by the Federal Government and by commercial industry. The DS3608-SR is configurable as a keyboard wedge and as a direct serial input device with USB connector and is delivered with a 3-year warranty. The DS3608-SR is pictured in the figure above.

## Barcode Label Printers

### Overview

The Barcode Label Printer is the solution for printing barcode 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. These printers are capable of functioning as network devices or as a standalone device connected to a single host PC. Printers offered on AIT V include portable and stationary printers.

### Portable/Wearable Printer CLINs

Table 24: Portable/Wearable Printer CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0005 AA | Zebra P4T P4D-0U100000-G1 | Portable Barcode Label Printer |
| CLIN 0005 AB | Zebra AK18913-001 | Spare Battery Pack for Zebra P4T Printer |
| CLIN 0005 AC | Zebra AT18737-1 | Battery Charger |
| CLIN 0005 AD | Zebra AK18924-1 | Carrying Case |
| CLIN 0005 AE | Zebra 10008424K  Zebra 05555BK110D | Black Thermal Transfer Ribbon and Roll of 4” x 6” Labels |



Figure 2‑8: Zebra P4T Printer

### Description of Portable/Wearable Barcode Printer (CLIN 0005AA)

The Zebra P4T Printer is a portable industrial printer ideal for a wide range of labelling applications within the logistics center/warehouse environment. It has a large, LCD screen, and supports all major 1D and 2D barcode symbologies. The printer has a resolution of 203 dpi, and a maximum print speed of 1.5 mm/second. The P4T supports label sizes up to 4.09 inches in width.

Table 25: Zebra P4T Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 7.1 in x 8.6 in x 3 in |
| Weight | 2.9 lbs |
| Cable Interfaces | USB |
| Power Requirements | 7.4V / 4200mAh (Li-Ion Smart Battery) |
| Separation Requirements | None |

### Included with CLIN 0005AA

Included with the Zebra P4T Printer are rechargeable batteries, several cables intended to support interfaces with various devices and an AC adapter and power supply. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. The Zebra P4T is delivered with a 3-year warranty.

### Portable Printer Separately Orderable Components

Zebra P4T is available with the separately orderable components listed in the table below.

Table 26: Portable Printer Separately Orderable Components

|  |  |
| --- | --- |
| **Portable Printer Rechargeable Battery (CLIN 0005AB)** | |
| The Zebra P4T spare rechargeable battery allows users to continue operations even as the primary battery is drained of charge. The rechargeable battery can be charged either while installed in the P4T or external to the P4T using the battery charger (CLIN 0005AC). | [http://cdn.barcodesinc.com/images/models/lg/Zebra/zeb-p4t-smart-li-ion-battery.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRxqFQoTCL7NjvHK_sYCFQV3PgodtpYAKg&url=http://www.barcodesinc.com/zebra/part-ak18913-001.htm&ei=T9u3Vf7pBYXu-QG2rYLQAg&bvm=bv.98717601,d.dmo&psig=AFQjCNGYgNMlpnUcWWfmMv7t920pt7HKdg&ust=1438198973283258) |
| **Portable Printer Battery Charger (CLIN 0005AC)** | |
| The battery charger allows users to recharge the Zebra P4T batteries. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering. | [https://barcode-house.com/wp-content/uploads/2012/12/AT176961-11.jpg](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=https://barcode-house.com/shop/power-supplies-cables/zebra-at18737-1-enhanced-lithium-ion-single-charger-for-ql-series-printers/&ei=aXBuVcjUHY-ryASg1YC4AQ&psig=AFQjCNEtEUOF6HOFKIeOY9oRUwwa1JG5aA&ust=1433387442094985) |
| **Portable Printer Carrying Case (CLIN 0005AD)** | |
| The Zebra P4T carrying case offers protection to the P4T while allowing users to continue operations in a rugged environment. The carrying case is delivered with a shoulder strap for hands free mobile printing. | [http://cdn.barcodesinc.com/images/models/lg/Zebra/zeb-p4t-soft-case.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/zebra/part-ak18924-1.htm&ei=jHFuVeiqJ4P5yQSZgoPoAw&psig=AFQjCNHuF7atNT0SFxB_Yk0dfH0co9GgnQ&ust=1433387706739316) |
| **Portable Printer Ribbon and Labels (CLIN 0005AE)** | |
| 4.33” Black Thermal Ribbon and 4” x 6” roll of labels (not pictured). | [http://cdn.barcodesinc.com/images/models/lg/Zebra/05555bk110d.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/zebra/part-05555bk110d-r.htm&ei=_XJuVaDDA431yAShwYLIDQ&psig=AFQjCNHUDO-dnkt2Fyb_1hMgluktStbeWA&ust=1433388094905446) |

### Stationary Printer CLINs

Table 27: Stationary Printer CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0005 BA | Zebra ZT510 123-ATV002 | Stationary Barcode Label Printer |
| CLIN 0005 BB | Zebra ZT510 123-ATV003 | Stationary Barcode Label Printer (w/take-up real) |
| CLIN 0005 BC | Zebra 10008530 | Roll of 4” x 6” Label Stock |
| CLIN 0005 BD | Zebra 10008531 | Roll of 4” x 3” Label Stock |
| CLIN 0005 BE | Zebra 06200BK11045 | Black Thermal Transfer Cartridge |

### 

Figure 2‑9: Zebra ZT510 Printer

### Description of Stationary Barcode Label Printer – With/Without Take-up Reel (CLIN 0005BA & CLIN 0005BB)

The Zebra ZT510 features a built in diagnostic display and keypad for configuration and troubleshooting. It has parallel, USB and Ethernet communication ports, and can print labels at speeds of at least 6 inches/sec for at least 16 hours a day. It can handle a label stock with a diameter of 8 inches, while auto sensing for the size of the label. The printer comes in two configurations, one with a take up reel (CLIN 0005BB) and one without (CLIN 0005BA). The Zebra ZT510 is pictured above.

Table 28: Zebra ZT510 Physical Dimension s and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 20.17” x 10.56” x 15.58” |
| Weight | 50 lbs |
| Cable Interfaces | Parallel  USB  Ethernet |
| Power Requirements | 12W / 14.2V (Idle)  118.7W / 120.5V (Printing) |
| Separation Requirements | None |

### Included with CLIN 0005BA & CLIN 0005BB

Included with the Zebra ZT510 printer is a USB cable for connection to a host PC and both an IPv4 and an IPv6 printer servers. The Zebra ZT510 is delivered with a 3-year warranty. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering.

## IUID Marking and Verification Equipment

### Overview

The requirement to identify individual items with a globally unique, unambiguous set of data that is permanently attached to the item via an ECC 200 data matrix symbol has existed for some time. Laser marking systems are frequently used to etch data matrix barcodes continuing item unique information on thin metallic plates or marking tape for permanent attachment to principal end items and major subassemblies. Part mark verification systems inspect part marks to ensure compliance with the appropriate DoD standards and produce reports indicating where the mark is noncompliant.

### Laser Marking Equipment CLINs

Table 29: Laser Marking Equipment CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0007AA | Trotec Rayjet 50e 33519 | Trotec Rayjet 50e Laser Marking System |



Figure 2‑10: Trotec Rayjet 50e

### Description of Laser Marking Equipment (CLIN 0007AA)

The Trotec Rayjet 50e is a 12 Watt laser marking system that provides users with an engraving area of 18” by 12”. In order to ensure continued optimal performance, the Trotec Rayjet 50 is equipped with an autofocusing function that maintains the proper distance between the laser focusing lens and the object being processed. The Trotec 50e is provisioned to accommodate a 100-240V power supply.

Table 30: Trotec Rayet 50e Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 28.2” x 16.2” x 25.8” |
| Weight | 99 lbs |
| Cable Interfaces | USB |
| Power Requirements | 300W / 230V |
| Separation Requirements | None |

### Included with CLIN 0007AA

Included with the Trotec 50e is an integrated carbon/HEPA air filtration system and a copy of Bartender software to help users in designing part marking labels. The Trotec 50e is delivered with a 3-year warranty. Users are requested to specify the AC power requirements for the intended geographic area of operations when ordering.

### Consumable Supplies CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0007AB | 3M 7847 | Adhesive film stock (25 sheets) |

### Description of Consumable Part Marking Supplies (CLIN 0007 AB)

3M 7847 adhesive film is a temperature resistant laser etchable layered polyacrylic film stock that is used to produce white on matte black marking.

### Included with CLIN 0007AB

3M 7847 adhesive film is offered in packs of 25 sheets.

### Verification Equipment CLINs

Table 31: Verification Equipment CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0007AC | Webscan TC-831 | 2D Handheld Wide Angle Desktop Verifier with USB cable |

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/webscan/part-tc-831.htm&ei=8j1vVauqIYeGyASw7IHIBw&bvm=bv.94911696,d.aWw&psig=AFQjCNHaMrODKZF8O771BnevQ1iHf_VdKA&ust=1433440090805867)

Figure 2‑11: Webscan TruCheck 2D USB Wide Angle

### Description of Verification Equipment (CLIN 0007AC)

The Webscan Tru­Check 2D USB Wide Angle is a stand-alone device capable of performing part mark label verification for Data Matrix ECC200 marks to ISO 15415, SAE AS9123A, and AIM DPO Guideline Standards. The TruCheck 2D USB Wide Angle verifies marks with cell sizes as small as 5 mils and is capable of communicating with a host PC running Windows 7 or later.

Table 32: Webscan TruCheck 2D USB Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 7.25” x 6.25” x 7” |
| Weight | 4 lbs |
| Cable Interfaces | USB |
| Power Requirements | 220W / 12V |
| Separation Requirements | None |

### Included with CLIN 0007AC

The Webscan TruCheck 2D USB Wide Angle is delivered with a USB cable for communication with a host PC and all of the software required to perform part mark verification. The Webscan TruCheck 2D USB is delivered with a 3-year warranty.

## RF Data Communications

### Overview

Wireless networking extends the benefits of AIT throughout a facility or logistics process. Wireless infrastructure can be deployed indoors or ruggedized and used to provide connectivity throughout an outdoor facility. In most cases a wireless node consists of an access point (AP) mounted at an elevated location and in the case of an outdoor location includes a ruggedized housing (and possibly lightning arresters). Access points are controlled by the RF gateways which manage the wireless infrastructure through hardwired connections.

### Wireless Access Point CLINs

Table 33: Wireless Access Point CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0009AA | Aruba AP-205-F1 | Aruba AP-205-F1 Wireless Access Point |
| CLIN 0009AB | Aruba AP-275-F1 | Aruba AP-275-F1 Outdoor/Ruggedized Wireless Access Point |
| CLIN 0009AD | Aruba AP-205-F1 | Aruba AP-205-F1 Wireless Access Point |

|  |  |
| --- | --- |
| http://ecx.images-amazon.com/images/I/41skEjviavL._AC_UL320_SR316,320_.jpg  Figure 2‑12: Aruba AP-205-F1 | https://www.sektor.co.nz/sites/default/files/styles/product_page_large_view/public/product/images/Aruba%20AP-270.jpg?itok=LhUbkeo9  Figure 2‑13: Aruba AP-275-F1 |

### Description of Wireless Access Points – Indoor/Outdoor (CLIN 0009AA, CLIN 0009AB & CLIN 0009AD)

The Aruba AP-205-F1 and Aruba AP-275-F1 wireless access point features a software radio that supports both 2.4GHz and 5GHz frequency bands. Both access points are power over Ethernet (POE) capable as well as 100-240 VAC compliant (the AP-275-F1 is also 12-48 VDC compliant) and features dual 10/100/1000 BASE-T Ethernet interfaces. Both the AP-205-F1 and the AP-275-F1 are capable of co-existing with alternative wireless networks without interference or degradation of performance. The AP-275-F1 is delivered in a ruggedized housing for outdoor use.

Table 34: Wireless Access Point Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 5.9” x 5.9” x 1.63” (AP-205-F1)  9.0” x 9.4” x 10.6” (AP-275-F1) |
| Weight | 0.84 lbs (AP-205-F1)  5.3 lbs (AP-275-I) |
| Cable Interfaces | Ethernet |
| Wireless Interfaces | 802.11 a/b/g/n |
| Power Requirements | 48V POE  12V External AC Power (with adapter)  15W Maximum Power Consumption (AP-205-F1)  23W Maximium Power Consumption (AP-275-F1) |
| Separation Requirements | AP-205-F1 and AP-275-F1 are both awaiting HERO testing |

### Included with CLIN 0009AA , CLIN 0009AB, and CLIN 0009AD

The Aruba AP-205-F1 is delivered with a manufacturer’s warranty. Customers requiring AP coverage in an industrial indoor environment on can purchase CLIN 0009AA which is delivered with an enclosure designed to provide IP54 level protection. Customers looking to employ the AP-205-F1 in a controlled (office) environment can purchase the AP-205-F1 without the enclosure using CLIN 0009AD. The AP-275-F1 is delivered with pole or wall mounting hardware and integrated 2.4GHz and 5GHz antennas.

### RF Gateway CLINs

Table 35: RF Gateway CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0009AC | Aruba 3200-USF1 | Aruba Wireless Network Controller |

### [http://cdn.barcodesinc.com/images/models/lg/Aruba/3000series.jpg](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.barcodesinc.com/aruba/part-3200-usf1.htm&ei=HlNvVc7kPIanyAS2goL4BQ&bvm=bv.94911696,d.aWw&psig=AFQjCNHTgMDGBDSSxns8DJUunxShKSb8dA&ust=1433445519139682)

Figure 2‑14: Aruba 3200-USF1 (3 units shown)

### Description of RF Gateway (CLIN 0009AC)

The Aruba 3200-USF1 supports up to 32 LAN-connected APs and 128 Remote APs. The Aruba 3200-USF1 has a MAX throughout up to 3Gbps and has the ability to perform spectrum analysis and firewall policy enforcement with appropriate licensing. 3200 Controller-based wireless installations yield architecture con­sistency across all CONUS and OCONUS implementations since the frequency bands spanning many countries are configured in the Aruba controller’s software – thereby providing wireless administrators with a centralized control mechanism for configuring, controlling, and protecting their wireless AP infrastructure. The Aruba 3200-USF1 is capable of communicating securely with FIPS 140 compliant HHTs that are communicating over the network.

Table 36: CLIN 0009AC Physical Dimensions and Interfaces

|  |  |
| --- | --- |
| Physical Dimensions | 13.8” x 11.7” x 1.75” |
| Weight | 7.4 lbs |
| Cable Interfaces | Ethernet  Serial |
| Power Requirements | 90-264 AC Input Voltage  35W Maximum Power Consumption |
| Separation Requirements | None |

### Included with CLIN 0009AC

The Aruba 3200 is delivered with a 3-year manufacturer warranty and licensing for up to 8 access points and is on the DoD Unified Capabilities Approved Product List (DoD UC APL).

## Transit Cases

### Overview

Proper protection for AIT equipment during transit and storage is just as important as select­ing the correct equipment. Grouping AIT hardware into component kits to help execute logistics functions during rapid deployment to austere environment can be a critical enabler of mission execution.

### Transit Case CLINs

Table 37: Transit Case CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0011AA | Includes Multiple P/Ns | Small Arms Transit Case Configuration |

### Description of Small Arms Transit Case Config (CLIN 0011AA)

The Small Arms Transit Case Configuration contains many of the hardware items required to perform armory business processes in a deployed environment. The case itself is designed to protect the enclosed equipment from moisture, rot, ultraviolet radiation, industrial solvents, hydraulic fluids, petroleum products and jet fuel and is outfitted with an identification label and safety labels.

### Included with CLIN 0011AA

The Small Arms Transit Case configuration is delivered with the following items:

Table 38: CLIN 0011AA Components

|  |  |
| --- | --- |
| Pelican AL2825-1212 | Rotomolded Polyethylene Case with Foam (Black) inserts. Exterior Dimensions 28.5"x25"x24.92" |
| Motorola DS3508-DP20005R | Corded Rugged 1D/2D Barcode Scanner with DPM capability |
| Motorola SXB-DS3508-30 | 3 Year Comprehensive Coverage Warranty |
| Motorola 20-67176-01R | Desk Top Holder |
| Motorola CBA-U12-C09ZAR | Cable - USB: Series A Connector, 9ft. (2.8m) Coiled |
| Elo E883482 | ELO, 1519L, 15" LCD, APR TOUCHSCREEN MONITOR |
| HP P1102W / CE658A#BG | Desktop LaserJet Printer |
| Panasonic CF-533SLBZCM | Panasonic Toughbook Rugged Laptop |
| Panasonic CF-VEB531U | Panasonic Desktop Dock, |
| Sun Micro Systems SCR3310 | USB Smart Card Reader |
| Topaz T-S460-HSB-R | 1 x 5 USB powered Signature Pad |
| Seagate STCD500102 | Seagate 500 GB External Hard Drive - USB 3.0 - Portable - Black |
| APC BG500 | Back-UPS Pro 500 Lithium Ion UPS |
| N/A | Packing lists for each case |
| N/A | Installation Manual & hardware manuals for individual products |

# Hardware Cables

Required cables are listed in the individual Hardware sections above.

Table 39: AIT V Cables

|  |  |  |  |
| --- | --- | --- | --- |
| CLIN 0001AA | Motorola PWRS-14000-148R | Power Supply | Charging solution for CLIN0001AA |
| Motorola 23844-00-00R | AC Line Cord |
| Portsmith 170573-000 | USB Cable Mini A to B | For use with USB/Ethernet Adapter |
| Motorola 25-68596-01R | USB Cable A to Mini B | Connects Docking Station to host PC |
| CLIN 0001AG | Motorola PWRS-14000-148R | Power Supply | Charging solution for CLIN 0001AG |
| Motorola 23844-00-00R | AC Line Cord |
| CLIN 0001AH | Motorola PWRS-14000-148R | Power Supply | Charging solution for CLIN 0001AH |
| Motorola 23844-00-00R | AC Line Cord |
| Motorola 25-68596-01R | USB Cable A to Mini B | Connects Docking Station to host PC |
| Portsmith 170573-000 | USB Cable Mini A to B | For use with USB/Ethernet Adapter |
| CLIN 0001BA | Intermec 203-990-001 | AC Adapter w/Cable | Charging solution for CLIN 0001BA |
| CLIN 0001BG | Intermec 851-095-131 | Power Supply | Charging Solution for CLIN 0001BG |
| Intermec 1-974028-025 | AC Line Cord |
| CLIN 0001BM | Motorola AK17463-008 | Cable | Connects HHT to Portable Printer |
| CLIN 0001BH | Intermec 851-095-131 | AC Line Cord | Charging Solution for CLIN 0001BH |
| Intermec 1-974028-025 | Power Supply |
| Intermec 236-209-001 | USB Cable A to micro B | Connects Docking Station to Host PC |
| CLIN 0001CA | Motorola ADP9000-120R | Adapter | Charging solution for CLIN 0001CA |
| Motorola PWRS-14000-148R | Power Supply |
| Motorola 23844-00-00R | AC Line Cord |
| CLIN 0001CG | Motorola PWRS-14000-242R | Power Supply | Charging solution for CLIN 0001CB |
| Motorola 25-72614-01R | DC Line Cord |
| Motorola 23844-00-00R | AC Line Cord |
| CLIN 0001CH | Motorola 23844-00-00R | AC Line Cord | Charging solution for CLIN 0001CH |
| Motorola PWRS-1400-148R | Power Supply |
| Motorola 25-64396-01R | USB Cable A to B | Connects Docking Station to Host PC |
| Portsmith 170575-000 | USB Cable B to B | For use with USB/Ethernet Adapter |
| CLIN 0001CM | Motorola AK17594-343 | Cable | Connects HHT to Portable Printer |
| CLIN 0001CQ | Zebra 25-62166-01R | Cable (Serial to USB) | Pairs BT200Z to HHT-C |
| CLIN 0001DA | Motorola ADP9000-120R | Adapter | Charging solution for CLIN 0001DA |
| Motorola PWRS-14000-148R | Power Supply |
| Motorola 23844-00-00R | AC Line Cord |
| CLIN 0001DG | Motorola PWRS-14000-242R | Power Supply | Charging solution for CLIN 0001DG |
| Motorola 25-72614-01R | DC Line Cord |
| Motorola 23844-00-00R | AC Line Cord |
| CLIN 0001DH | Motorola 23844-00-00R | AC Line Cord | Charging solution for CLIN 0001DH |
| Motorola PWRS-1400-148R | Power Supply |
| Motorola 25-64396-01R | USB Cable A to B | Connects Docking Station to Host PC |
| Portsmith 170575-000 | USB Cable B to B | For use with USB/Ethernet Adapter |
| CLIN 0001DM | Motorola AK17594-343 | Cable | Connects HHT to Portable Printer |
| CLIN 0001DQ | Zebra 25-62166-01R | Cable (Serial to USB) | Pairs BT200Z to HHT-D |
| CLIN 0001EA | Panasonic CF-AA6413CM | AC Adapter | Charging solution for CLIN 0001EA |
| CLIN 0001EG | Panasonic CF-AA6413CM | AC Adapter | Charging solution for CLIN 0001EG |
| CLIN 0001EH | Panasonic CF-AA6413CM | AC Adapter | Charging solution for CLIN 0001EH |
| StarTech USB2AA2M | USB Cable A to A | Connects Docking station to Host PC |
| CLIN 0001EM | Zebra AK18666-4 | Cable USB/Ethernet | Connects HHT to Portable Printer |
| CLIN 0001FA | Panasonic CF-AA6373AM | AC Adapter | Charging solution for CLIN 0001FA |
| Sabrent CB-RS232 | Cable USB/Serial | Serial solution for CLIN 0001EA |
| CLIN 0001FG | Panasonic CF-AA6373CM | AC Adapter | Charging solution for CLIN 0001FG |
| CLIN 0001FH | Panasonic CF-AA6373CM | AC Adapter | Charging solution for CLIN 0001FH |
| CLIN 0001FH | StarTech USB2AA2M | USB Cable A to A | Connects Docking station to Host PC |
| CLIN 0001FM | Zebra AK18666-4 | Cable USB/Ethernet | Connects HHT to Portable Printer |
| CLIN 0003AA | Motorola CBA-U12-C09ZAR | Cable USB/Series A | Connects scanner to host PC |
| CLIN 0003AB | Motorola 50-14000-266R | Power Supply | Charging solution for CLIN 0003AB |
| Motorola 50-16000-182R | AC Line Cord |
| Motorola CBA-U21-S07ZAR | Shielded USB Cable | Connects scanner to host PC |
| CLIN 0003AC | Motorola CBA-U12-C09ZAR | Cable USB/Series A | Connects scanner to host PC |
| CLIN 0003AD | Motorola CBA-U12-C09ZAR | Cable USB/Series A | Connects scanner to host PC |
| CLIN 0005AA | Zebra AK18913-002 | AC Adapter | Charging solution for CLIN 0005AA |
| Zebra AK18666-4 | Cable USB/RJ45 | Connects Portable Printer to HHT E/F |
| Zebra AK17594-343 | Cable | Connects Portable Printer to HHT A/B/C/D |
| Zebra AK17463-008 | Cable Serial/RJ45 | Connects Portable Printer to HHTA/B/C/D |
| CLIN 0005BA | Zebra 37996 | Cable USB A to B | Connects Printer to host PC |
| CLIN 0005BB | Zebra 37996 | Cable USB A to B | Connects Printer to host PC |
| CLIN 0011AA | Motorola CBA-U12-C09ZAR | Cable USB Series A | Connects DPM scanner to host PC |

# Software

## AIT V - Software

### Software CLINs

Table 40: Software CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0013AA | Seagull Scientific BT-PRO | Bartender 10.1 Label and RFID Software |
| CLIN 0013AB | Williams SMARTRACK | Small Arms Room Mgt Software |

### Barcode Label and Printing Software (CLIN 0013AA)

Bartender Label and RFID Software Professional Edition is a set of programs embedded in a single software package that allows users to design and print barcode labels and forms. Bartender Professional supports any printer with a Windows driver and is equipped with templates of several forms commonly used in DoD logistics including the DD 1348 (*Issue Release/Receipt Document)* and the DD1387 (*Military Shipping Label)*. Bartender Label and RFID Software Professional Edition is provided with free phone and e-mail technical support for properly registered users, and contains a user interface that can be translated into over 20 lan­guages. Bartender Label and RFID Software Professional Edition allows automatic alignment of multiple print objects and export of barcodes created in Bartender Label and RFID Software Professional Edition to other program. Users have the ability to define and print “batches” of multiple Bartender documents allowing users to bundle all labels and forms required to complete a single job and Bartender Label and RFID Software Professional Edition supports printing of rectangular, circular, and elliptical equations. An automatic check digit capability for barcodes created using Bartender Label and RFID Software, and Bartender supports sequentially numbered barcodes and magnetic strip encoding. Bartender Label and RFID Software Professional Edition supports printing and design of labels and forms with embedded RFID tags. Bartender Label and RFID Software Professional Edition also supports password protection of forms and docu­ments and includes a library of industrial symbols to help design labels for items requiring special storage or handling procedures. Bartender includes the capability to read both MS Excel and text files and allows users to import more than 70 graphic formats (including BMP, DCX, DIB, DXF, EPS, GIF, IMG, JPG, PCX, PNG, TGA, TIF, WMF, WPG, and PDF).

Bartender Professional includes applications such as Print Station which provides users with easy point and click label printing and Batch Maker which allows users to specify a set of multiple labels to print as a single batch. System requirements for operating Bartender Professional are listed below.

Table 41: Bartender Label and RFID Software System Requirements

|  |  |
| --- | --- |
| Hard Disk | 1.1 GB |
| CPU | 1 GHz |
| Memory | 512 MB |
| Display | 1024 x 768 or higher (recommended) |

### Small Arms Room Management Software (CLIN 0013AB)

SMARTRACK by Willems Software Associates is designed to support armory management in the military as well as other federal agencies and state and local governments. The software maintains a lifecycle record of items while managed by SMARTRACK and supports serialized management and processing of arms room assets using barcode and data matrix AIT. SMARTRACK is fully deployable and is capable of supporting users with its full suite of capabilities while deployed or while in garrison and includes the ability to automatically process Standard Form 701 (*Activity Security Checklist*), DA Form 3749 (*Equipment Receipt*), DA Form 2062 (*Hand Receipt/Annex Number*), and DA Form 2404 (*Equipment Inspection and Maintenance Worksheet*) documentation. SMARTRACK has the capability to link an unlimited number of individual armories and is capable of providing statistical reporting on a network of connected armories and maintains a training record of authorized individuals and provides a warning when an item is issued to a user without the proper training. System requirements for operating SMARTRACK are listed below.

Table 42: SMARTACK System Requirements

|  |  |
| --- | --- |
| Hard Disk | 500 GB SSD Min |
| CPU | 2.7 GHz |
| Memory | 8GB |
| Display | 1260 x 780 |

# Technical Engineering Services

## Technical Engineering Services

### Overview

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

### 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 AIT 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 43: AMIS AIT V Team Mates

| Team Mate | Role |
| --- | --- |
| A2B Tracking | For over 20 years A2B Tracking has been a leader in enterprise-class solutions for identifying, marking and tracking critical assets in highly regulated environments. A2B Tracking provides ***technical engineering services*** related to IUID and asset tracking solution deployments. |
| Evanhoe and Associates | Evanhoe and Associates provide select ***technical engineering services.***  As nationally recognized experts in DoD barcode, 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 accordance with existing processes. |
| Barcodes Inc. | Barcodes Incis a leading provider and distributor of barcode, mobile computing, and RFID solutions |
| Symbology | For more than 18 years, Symbology**.** has been a leading provider of ***technical engineering services*** for data collection systems. Symbology’s experience encompasses Government, wholesale, industrial, distribution and operations, inclusive of barcode label printing, radio frequency barcode data collection, inventory control software, unique RFID projects and warehouse management services |
| University of Memphis | A leading institution for higher learning in – among other disciplines – packaging; MU has embraced the challenges, requirements, and uses of AIT marking and related solution. University of Memphis provides ***technical engineering services*** in advisory, research, and training. |
| 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 AIT applications 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.

### Labor and Cost Reimbursable CLINs

The following table shows other CLINs to include incidental materials, travel and labor categories.

Table 44: AIT V Labor and Cost Reimbursable CLINs

|  |  |  |
| --- | --- | --- |
| CLIN 0021 AA | Cost Reimbursable | Incidental Materials |
| CLIN 0017 AA | Labor Category | Project Manager |
| CLIN 0017AB | Labor Category | Instructional Design and Development Specialist |
| CLIN 0017 AC | Labor Category | Senior Programmer |
| CLIN 0017 AD | Labor Category | Systems Analyst |
| CLIN 0017 AE | Labor Category | Software Systems Engineer |
| CLIN 0017 AF | Labor Category | Programmer/Analyst |
| CLIN 0017 AG | Labor Category | Junior Programmer |
| CLIN 0017 AH | Labor Category | Systems Engineer |
| CLIN 0017 AJ | Labor Category | Data Comm/Network Specialist |
| CLIN 0017AK | Labor Category | RF Technical Radio Specialist |
| CLIN 0017AL | Labor Category | Technical Training Specialist |
| CLIN 0017AM | Labor Category | Technical Writer |
| CLIN 0027 | Cost Reimbursable | Travel |

### Labor Category Descriptions

**Project Manager:** The Contractor’s AIT V 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.

**Instructional Design and Development Specialist:** Under minimal direction, conducts needs analysis of groups, processes, or products to identify performance requirements of training and curricula to insure effectiveness in support materials. Assures delivery of training courses supporting specific customer needs. Enhances customer satisfaction and loyalty by assisting in the definition, implementation, rollout, marketing, and continual evaluation of the program. Provides consulting services to customer on all program aspects to include program development, organizational readiness, and marketing strategies. Manage implementation/deployment projects for new and upgraded products and services. Coordinates interaction between government and contractor to support and enhance client program initiatives, quality assurance, and problem resolution. Contributes directly to the building of customer goodwill, satisfaction, and loyalty. Facilitates defining/enhancing the client’s business needs, goals, success criteria, and program strategy. Demonstrates excellent teamwork and strategic partnership skills and abilities.

**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, maintains hardware and software performance tuning, analyzes workload and computer usage, maintains interfaces with outside systems, analyzes downtimes, analyzes 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 Engineer:** Applies business process improvement practices to reengineer methodologies/principals and business process modernization projects. Applies, as appropriate, activity and data modelling, transaction flow analysis, internal control and risk analysis and modern business methods and performance measurement techniques. Assists 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.

**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 AIT-V system. The individual will organize and configure the installation of AIT-V site. This includes the proper RF installation of AIT-V 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.

**Technical Training Specialist:** Conducts the research necessary to develop and revise training courses. Develops and revises these courses and prepares appropriate training catalogs. Prepares instructor materials (course outline, completion certificates, and course critique forms). Trains personnel by conducting formal classroom courses, workshops, and seminars.

**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.

# Training

## 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 AIT 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. Training can last from 1 to 2 days depending on the complexity of the implementation. Participants should have an IT helpdesk-type background.
* User / Operator Training helps facilitate change management for use of AIT systems and ensures operators understand the intent, purpose and value from process changes and technology insertion. This training generally includes an overview of AIT technology, standard operating procedures using AIT solutions and integrated change management, basic operational indicators and support procedures. Training typically lasts from 1 to 2 days depending on the complexity of the implementation. Participants should have experience using the system that is supported by the AIT deployment or in the business process that the AIT deployment is designed to augment.
* Manager / Analyst Training is targeted at improved decision support and ensuring that organization realize the benefits of AIT solutions effectively. This training generally includes how to use AIT information, supply chain effects of deployed AIT solutions to upstream and downstream processes, as well as example business case frameworks and expected results from turnkey applications. Training usually lasts from several hours up to a full day. Participants should be familiar with factors influencing the organizations decision making and overall management.

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:

* AIT configuration and operations
* Hardware characteristics, principles of operation and protocols, and maintenance
* AIT 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 AIT related needs

# Warranty

## 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.

## Manufacturer’s Warranty

We provide a minimum three-year warranty for all equipment purchased. Some CLINs include the option to extend the warranty by two or four years making it a five or seven 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 AIT V contract website. Our Team uses the manufacturer’s warranty for all equipment purchased with a warranty.

## 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.

## 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.

## 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.

# Preventive maintenance

|  |  |
| --- | --- |
| AIT V Item | Preventive Maintenance Procedures |
| CLIN 0001AA  CLIN 0001CA  CLIN 0001DA | * Protect the HHT from temperature extremes. Do not leave it on the dashboard of a car on a hot day, and keep it away from heat sources. * Do not store or use the HHT in any location that is extremely dusty, damp, or wet. * Use a soft lens cloth to clean the HHT. If the surface of the HHT screen becomes soiled, clean it with a soft cloth moistened with a diluted window-cleaning solution. * Periodically replace the rechargeable Li-ion battery to ensure maximum battery life and product performance. Battery life depends on individual usage patterns. * Take care not to scratch the screen of the HHT. When working with the HHT, use the supplied stylus or plastic-tipped pens intended for use with a touch-sensitive screen. Never use an actual pen or pencil or other sharp object on the surface of the HHT screen. * The touch-sensitive screen of the HHT contains glass. Take care not to drop the HHT or subject it to strong impact. * Follow the cleaning instructions in the user’s manual to perform periodic cleaning on the HHT housing, display, scanner window, connectors, and docking connector. * **It is strongly recommended that users consult the Motorola MC67/MC92N0 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0001BA | * To keep the computer in good working order, you may need to clan the imager window, color camera window, and touch screen. Clean the windows and the touch screen as often as needed for the environment in which you are using the computer. The following is a list of approved cleaning solutions:   + Acetic acid, 10% in water   + Ethyl alcohol, 10% in water   + Mild soap solutions   + 5% to no more than 10% bleach or sodium hypochlorite in water * Avoid the following cleaning agents and products that contain these agents:   + Hydrogenated hydrocarbons   + Sodium hydroxide   + Ammonia solutions   + Ethers   + Cabolic acid   + Methyl or isopropyl alcohol   + Methyl ethyl ketone   + Heavy Deturgents   + Alkaline solutions   + Oxidizing acids   + Organic chemicals such as paint thinner, acetone, tolulene, xylene, propyl or isopropyl alcohol, or kerosene * To clean the CN70e   + Press the Power button and choose to suspend the computer   + Dip a clean, soft, dry cloth towel in the cleaning solution and wring out the excess   + Wipe off the imager window, camera lens, and flash area. Do not allow any abrasive material to touch these surfaces.   + Wipe dry with a clean, soft, dry cloth   + Allow the computer to fully air dry before using it |
| CLIN 0001EA  CLIN 0001FA | * When carrying the computer:   + Turn off the computer.   + Remove all external devices, cables, Smart Cards and other protruding objects.   + Do not drop or hit the computer against solid objects.   + Do not grip the display part. * When you board an airplane, take the computer with you and never put it in your checked luggage. * When carrying a spare battery, put it in a plastic bag to protect its terminals. * Avoid any harmful substances such as oil from getting into the touch pad. The pointer may not function properly. * Use only the included digitizer pen to touch the screen. Do not place any object on its surface and do not press down strongly with sharp-pointed or hard objects that may leave marks (e.g., nails, pencils and ball point pens). * Do not use the screen when dust or dirt (e.g., oil) is on the screen. Otherwise foreign particles on the screen/digitizer pen can scratch the screen surface or obstruct the digitizer pen operation.   + Use the digitizer pen only for touching the screen. Using it for any other purpose may damage the digitizer pen and result in scratches on the screen. * If drops of water or other stains get on the surface of the LCD panel, wipe them off immediately (Failure to do so may result in staining). * Follow the cleaning instructions in the user’s manual to perform periodic cleaning on the HHT LCD, dust cover, and other areas. * **It is strongly recommended that users consult the Panasonic FZ-G1/FZ-M1 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0003AA  CLIN 0003AB  CLIN 0003AC  CLIN 0003AD | * Cleaning the scan window is the only maintenance required. A dirty window can affect scanning accuracy   + Do not allow any abrasive material to touch the window   + Remove any dirt particles with a damp cloth   + Wipe the window using a tissue moistened with ammonia/water   + Do not spray water or other cleaning liquids directly onto the window * **It is strongly recommended that users consult the Motorola DS3608/DS3678 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0005AA | Battery Maintenance   * Avoid exposing the battery to direct sunlight or temperatures over 104 °F (40 °C). * Always use a Zebra charger designed specifically for Lithium-Ion batteries. Use of any other kind of charger may damage the battery. * Caution • Do not print while an LI72 Single Charger is plugged into the unit. Unreliable battery charging can result. * Use the correct media for your printing requirements. An authorized Zebra re-seller can help you determine the optimum media for your application. * If you print the same text or graphic on every label, consider using a preprinted label. * Choose the correct print darkness and print speed for your media. * Use software handshaking (XON/XOFF) whenever possible. * Use the LCD display backlight only when necessary. Turn it off whenever it is not needed. * Remove the battery from the printer if it won’t be used for a day or more and you’re not performing a maintenance charge. * Consider purchasing an extra battery. * Remember that any rechargeable battery will lose its ability to maintain a charge over time and can be recharged only a finite number of times before it must be replaced. The “Smart Battery” feature of the P4T Series monitors the battery pack’s condition and will prompt you when a battery pack is nearing the end of its useful life. * Always dispose of used batteries properly. Refer to Appendix E in the Zebra P4T User’s Manual for more information on proper battery disposal. * When the printer displays “Please Recondition The Battery” and beeps five times, the user should recondition the battery to return it to optimal capacity. Refer to the Operator Controls section of the user’s manual for information in reconditioning the battery.   General Cleaning Instructions   * Always turn off the printer before cleaning * To avoid possible personal injury or damage to the printer, never insert any pointed or sharp objects into the printer. * Use care when working near the Tear Bar. The edges are very sharp. * Caution – use only cleaning agents specified in the P4T Series cleaning instructions. Neither SRA International nor the manufacturer will not be responsible for damage caused by any other cleaning materials used on this printer. * Clean the printer with either a Zebra cleaning pen or cotton swab saturated with 70% Isopropyl alcohol. * **It is strongly recommended that users consult the Zebra P4T User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0005BA  CLIN 0005BB | |  |  |  | | --- | --- | --- | | Area | Method | Interval | | Print head | Solvent\* | Perform these procedures at the following times:   * When “CLEAN HEAD NOW” appears * Direct Thermal Print Mode: After every roll of labels or 500 ft (130m) of fanfold labels. * Thermal Transfer Print Mode: After every roll (1500ft or 450m) of ribbon. | | Platen Roller | | Transmissive (media sensor) | Air Blow# | | Black mark sensor | Air Blow# | | Media path | Solvent\* | | Ribbon Sensor | Air Blow | | Label-Available Sensors | Air Blow | Every 6 months, or as needed | | Tear-off/peel-off bar | Solvent\* | | Snap plate | Solvent\* | As needed | | Cutter | Solvent\* | | \*Zebra recommends using Preventive Maintenance Kit (P/N 47362). In place of this kit you may use a clean swab dipped in a solution of isopropyl alcohol (min 90%) and deionized water (max 10%). | | | | #If using canned air, it is recommended that you turn off the printer before cleaning. | | |  * Perform cleaning of the following components (using the method specified) at the recommended interval * Detailed cleaning instructions for each of the areas listed above can be found in the Zebra ZT510 User’s Manual. * **It is strongly recommended that users consult the Zebra ZT510 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0007AA | * Detailed instructions for maintaining the Trotec Rayjet 50e with integrated filter can be found in the User’s Manual * **It is strongly recommended that users consult the Trotec Rayjet 50 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0007AC | * Calibrate periodically using the methodology in the Webscan TC-831 User’s Manual * In a very dusty environment, it is necessary to clean the window surface from time to time.   + It is recommended that you use a soft cloth, similar to the type used on eye glasses or camera lenses. Slowly wipe up and down making sure to clean the entire width of the window.   + Never use detergent with any abrasive content   + Be careful not to scratch the window * **It is strongly recommended that users consult the Webscan TC-831 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0009AA  CLIN 0009AB  CLIN 0009AD | * Keep exterior clean by wiping with a dry cloth * Detailed instructions on software maintenance can be found in the Aruba AP-205/275 User’s Manual * **It is strongly recommended that users consult the Aruba AP-205/275 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0009AC | * Keep exterior clean by wiping with a dry cloth * Detailed instructions on software maintenance can be found in the Aruba 3200 User’s Manual * **It is strongly recommended that users consult the Aruba 3200 User’s Manual prior to operating this product. The full user’s manual can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0011AA | * The AIT V Small Arms Transit Case consists of many components from multiple manufacturers. For maintenance on a specific component consult the User’s Manual for that item. * **It is strongly recommended that users consult the User’s Manual for all unfamiliar components prior to operating this product. The full user’s manuals can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0013AA | * Links to files required for maintenance of Bartender Professional are located on the AIT V website. * **It is strongly recommended that users consult the Bartender Professional User’s Manual prior to using this product. The full user’s manuals can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |
| CLIN 0013AB | * Links to files required for maintenance of Bartender Professional are located on the AIT V website. * **It is strongly recommended that users consult the SMARTRACK User’s Manual prior to using this product. The full user’s manuals can be found on the AIT V website (http://ait.srahosting.com/AIT-V).** |

# AIT V Product Pricing

| **CLIN/SLIN** | **Products and Services** | **Unit Price** |
| --- | --- | --- |
|  | **Handheld Barcode Terminals** |  |
| CLIN 0001 AA | Hand Held Barcode Terminal (HHT-A) Compact Form with Abbreviate Keypad Capability | $ 1,835.00 |
| CLIN 0001 AB | HHT-A warranty upgrade to add 2 years (total 5 year warranty) | $ 172.00 |
| CLIN 0001 AC | HHT-A warranty upgrade to add 4 years (total 7 year warranty) | $ 358.00 |
| CLIN 0001 AD | HHT-A Holster and Shoulder Strap | $ 30.00 |
| CLIN 0001 AE | HHT-A Detachable Handle and Trigger | $ 101.00 |
| CLIN 0001 AF | HHT-A Rechargeable Battery | $ 48.00 |
| CLIN 0001 AG | HHT-A Multiple (4) Battery Charger | $ 215.00 |
| CLIN 0001 AH | HHT-A Single Battery Charger/Docking Station | $ 277.00 |
| CLIN 0001 AJ | HHT-A One Pack of 3 Tethered Replacement Styli | $ 22.00 |
| CLIN 0001 AK | HHT-A Transparent Screen Protector | $ 27.00 |
| CLIN 0001 AM | HHT-A Portable Printer Interface Connection and Cable | N/A |
| CLIN 0001AN | HHT-A Disable All Wireless Communications (Create Batch HHT) | $ 40.00 |
| CLIN 0001 AP  **RESERVED** | HHT-A Detachable CAC Reader | $ 417.00 |
| CLIN 0001 AQ | HHT-A Bluetooth CAC Reader | $ 307.00 |
| CLIN 0001 BA | Hand Held Barcode Terminal (HHT-B) with Full Alpha-numeric Keypad Capability and NI Certified | $ 1,601.00 |
| CLIN 0001 BB | HHT-B warranty upgrade to add 2 years (total 5 year warranty) | $ 408.00 |
| CLIN 0001 BC | HHT-B warranty upgrade to add 4 years (total 7 year warranty) | $ 582.00 |
| CLIN 0001 BD | HHT-B Holster and Shoulder Strap | $ 99.00 |
| CLIN 0001 BE | HHT-B Detachable Handle and Trigger | $ 119.00 |
| CLIN 0001 BF | HHT-B Rechargeable Battery | $ 139.00 |
| CLIN 0001 BG | HHT-B Multiple (4) Battery Charger | $ 485.00 |
| CLIN 0001 BH | HHT-B Single Battery Charger/Docking Station | $ 456.00 |
| CLIN 0001 BJ | HHT-B One Pack of 3 Tethered Replacement Styli | $ 23.00 |
| CLIN 0001 BK | HHT-B Transparent Screen Protector | $ 51.00 |
| CLIN 0001 BM | HHT-B Portable Printer Interface Connection and Cable | $ 110.00 |
| CLIN 0001 BN | HHT-B Disable All Wireless Communications (Create Batch HHT) | $ 39.00 |
| CLIN 0001 BP | HHT-B Detachable CAC Reader | $ 464.00 |
| CLIN 0001 BQ | HHT-B Bluetooth CAC Reader | $ 307.00 |
| CLIN 0001 CA | Hand Held Barcode Terminal (HHT-C) with Extended Reading Range and Full Alpha-numeric Keypad Capability | $ 2,074.00 |
| CLIN 0001 CB | HHT-C warranty upgrade to add 2 years (total 5 year warranty) | $ 190.85 |
| CLIN 0001 CC | HHT-C warranty upgrade to add 4 years (total 7 year warranty) | $ 381.72 |
| CLIN 0001 CD | HHT-C Holster and Shoulder Strap | $ 54.79 |
| CLIN 0001 CE | HHT-C Detachable Handle and Trigger | Included in CLIN 0001 CA |
| CLIN 0001 CF | HHT-C Rechargeable Battery | $ 70.41 |
| CLIN 0001 CG | HHT-C Multiple (4) Battery Charger | $ 393.51 |
| CLIN 0001 CH | HHT-C Single Battery Charger/Docking Station | $ 376.69 |
| CLIN 0001 CJ | HHT-C One Pack of 3 Tethered Replacement Styli | $ 14.08 |
| CLIN 0001 CK | HHT-C Transparent Screen Protector | $ 31.29 |
| CLIN 0001 CM | HHT-C Portable Printer Interface Connection and Cable | $ 193.49 |
| CLIN 0001 CN | HHT-C Disable All Wireless Communications (Create Batch HHT) | $ 40.00 |
| CLIN 0001 CP | HHT-C Detachable CAC Reader | $ 393.95 |
| CLIN 0001 CQ  **RESERVED** | HHT-C Bluetooth CAC Reader | $ 339.00 |
| CLIN 0001 DA | Hand Held Barcode Terminal (HHT-D) with Direct Part Mark Reading Capability and Full Alpha-numeric Keypad Capability | $ 2,230.00 |
| CLIN 0001 DB | HHT-D warranty upgrade to add 2 years (total 5 year warranty) | $ 190.85 |
| CLIN 0001 DC | HHT-D warranty upgrade to add 4 years (total 7 year warranty) | $ 335.40 |
| CLIN 0001 DD | HHT-D Holster and Shoulder Strap | $ 49.58 |
| CLIN 0001 DE | HHT-D Detachable Handle and Trigger | Included in CLIN 0001 DA |
| CLIN 0001 DF | HHT-D Rechargeable Battery | $ 61.86 |
| CLIN 0001 DG | HHT-D Multiple (4) Battery Charger | $ 345.76 |
| CLIN 0001 DH | HHT-D Single Battery Charger/Docking Station | $ 340.92 |
| CLIN 0001 DJ | HHT-D One Pack of 3 Tethered Replacement Styli | $ 14.08 |
| CLIN 0001 DK | HHT-D Transparent Screen Protector | $ 27.49 |
| CLIN 0001 DM | HHT-D Portable Printer Interface Connection and Cable | $ 170.01 |
| CLIN 0001 DN | HHT-D Disable All Wireless Communications (Create Batch HHT) | $ 40.00 |
| CLIN 0001 DP | HHT-D Detachable CAC Reader | $ 356.55 |
| CLIN 0001 DQ | HHT-D Bluetooth CAC Reader | $ 339.00 |
| CLIN 0001 EA | Hand Held Barcode Terminal (HHT-E) Integrated Imager, Full Alpha-numeric Keypad Capability and Large Display and Certified for Hazardous Locations (Minimum Class 1, Division 2, Groups A, B, C, and D) | $ 3,844.00 |
| CLIN 0001 EB | HHT-E warranty upgrade to add 2 years (total 5 year warranty) | $ 272.00 |
| CLIN 0001 EC | HHT-E warranty upgrade to add 4 years (total 7 year warranty) | $ 548.00 |
| CLIN 0001 ED | HHT-E Holster and Shoulder Strap | $ 9.88 |
| CLIN 0001 EE | HHT-E Detachable Handle and Trigger | Included in CLIN 0001 EA |
| CLIN 0001 EF | HHT-E Rechargeable Battery | $ 142.16 |
| CLIN 0001 EG | HHT-E Multiple (2) Battery Charger | $ 639.68 |
| CLIN 0001 EH | HHT-E Single Battery Charger/Docking Station | $ 412.00 |
| CLIN 0001 EJ | HHT-E One Pack of 1 Tethered Replacement Styli | $ 38.49 |
| CLIN 0001 EK | HHT-E Transparent Screen Protector | $ 57.22 |
| CLIN 0001 EM | HHT-E Portable Printer Interface Connection and Cable | $ 21.28 |
| CLIN 0001 EN | HHT-E Detachable Hand Strap | $ 85.98 |
| CLIN 0001 EP | HHT-E Carrying Case | $ 69.53 |
| CLIN 0001 FA | Hand Held Barcode Terminal (HHT-F) Integrated Imager, Full Alpha-numeric Keypad Capability and Small Display Certified for Hazardous Locations (Minimum Class 1, Division 2, Groups A, B, C, and D) | $ 3,722.18 |
| CLIN 0001 FB | HHT-F warranty upgrade to add 2 years (total 5 year warranty) | $ 308.00 |
| CLIN 0001 FC | HHT-F warranty upgrade to add 4 years (total 7 year warranty) | $ 623.00 |
| CLIN 0001 FD | HHT-F Holster and Shoulder Strap | $ 81.31 |
| CLIN 0001 FE | HHT-F Detachable Handle and Trigger | Included in CLIN 0001 FA |
| CLIN 0001 FF | HHT-F Rechargeable Battery | $ 138.23 |
| CLIN 0001 FG | HHT-F Multiple (2) Battery Charger | $ 355.31 |
| CLIN 0001 FH | HHT-F Single Battery Charger/Docking Station | $ 473.00 |
| CLIN 0001 FJ | HHT-F One Pack of 1 Tethered Replacement Styli | $ 30.13 |
| CLIN 0001 FK | HHT-F Transparent Screen Protector | $ 44.97 |
| CLIN 0001 FM | HHT-F Portable Printer Interface Connection and Cable | $ 24.22 |
| CLIN 0001 FN | HHT-F Detachable Hand Strap | $ 37.81 |
| CLIN 0001 FP | HHT-F Carrying Case | $ 103.86 |
| CLIN 2001 GA | Ruggedized MS2 Tablet with 7 inch Touchscreen (NI Certified) | $ 3,744.00 |
| CLIN 2001 GB | 5-year Service Plan for HHT-G | $ 1,107.00 |
| CLIN 2001 GD | Shoulder Strap | $ 64.00 |
| CLIN 2001 GF | Rechargeable Battery | $ 156.00 |
| CLIN 2001 GG | Single Battery Charger | $ 210.00 |
| CLIN 2001 GH | Single Slot Battery Charger/Docking Station | $ 562.00 |
| CLIN 2001 GJ | Replacement Styli | $ 19.00 |
| CLIN 2001 GK | Replacement Screen Protector | $ 27.00 |
| CLIN 2001 GM | Portable Printer Interface Cable | $ 12.00 |
| CLIN 2001 GN | Disable All Wireless Comms | $ 0.00 |
| CLIN 2001 GP | Apriva BT200Z (with cable) | $ 339.00 |
| CLIN 2001GQ | Apriva BT200Z | $ 339.00 |
| CLIN 2001GR | Juniper Systems 25320 | $ 29.00 |
| CLIN 2001GS | Juniper Systems 25677 | $ 97.00 |
|  | **Barcode Imagers (for PC Input)** |  |
| CLIN 0003 AA | Imager for PC Input – General Barcode (Tethered) | $ 568.00 |
| CLIN 0003 AB | Imager for PC Input – General Barcode (Bluetooth) | $ 812.00 |
| CLIN 0003 AC | Imager for PC Input – IUID Label Markings | $ 568.00 |
| CLIN 0003 AD | Imager or PC Input – IUID Direct Part Markings | $ 1192.00 |
|  | **Barcode Printers** |  |
| CLIN 0005 AA | Portable/Wearable Barcode Label Printer | $ 1,366.67 |
| CLIN 0005 AB | Rechargeable Battery for Portable/Wearable BC Label Printer | $ 147.65 |
| CLIN 0005 AC | Battery Charger for Portable/Wearable BC Label Printer | $ 117.69 |
| CLIN 0005 AD | Carrying Case with Strap for Portable/Wearable BC Label Printer | $ 97.37 |
| CLIN 0005 AE | 4” x 6” Label and Ribbon Set for Portable/Wearable BC Label Printer (6 rolls) | $ 139.09 |
| CLIN 0005 BA | Stationary Barcode Label Printer | $ 1,402.00 |
| CLIN 0005 BB | Stationary Barcode Label Printer with Installed Take-Up Reel | $ 2,149.43 |
| CLIN 0005 BC | Roll of 4” x 6” Synthetic Label Stock (8 inch Diameter Roll) for Stationary BC Label Printer (6 Rolls) | $ 118.21 |
| CLIN 0005 BD | Roll of 4” x 3” Synthetic Label Stock (8 inch Diameter Roll) for Stationary BC Label Printer (6 Rolls) | $ 119.99 |
| CLIN 0005 BE | Resin Ribbon for 4” Width Labels for Stationary BC Label Printer | $ 49.37 |
|  | **IUID Marking Equipment and Verifiers** |  |
| CLIN 0007 AA | Laser Marking Equipment | $ 13,121.06 |
| CLIN 0007 AB | Adhesive Film Stock (25 Sheets) | $ 115.55 |
| CLIN 0007 AC | Desktop Verifier for Labels | $ 8,056.37 |
|  | **Wireless Radio Frequency Data Communications** |  |
| CLIN 0009 AA | Radio Frequency Access Point (Indoor Environment) | $ 866.84 |
| CLIN 0009 AB | Radio Frequency Access Point (NEMA) | $ 2,301.99 |
| CLIN 0009 AC | Radio Frequency Gateway | $ 8,745.10 |
| CLIN 0009 AD | Radio Frequency Access Point (Office Environment) | $ 783.00 |
|  | **Transit Cases and Transit Case Configuration** |  |
| CLIN 0011 AA | Transit Case Configuration, Small Arms Room Kit | $ 10,693.69.00 |
|  | **Software** |  |
| CLIN 0013 AA | Barcode Label Design and Printing Software | $ 654.21 |
| CLIN 0013 AB | Small Arms Room Management Software | $ 11,717.12 |
|  | **Expedited Delivery for Hardware and Software** |  |
| CLIN 0015AA | Expedited Delivery - CONUS |  |
| CLIN 0015AB | Expedited Delivery - OCONUS |  |
|  | **Technical Engineer Services** | **Hourly Rate Yr** **1** |
| CLIN 0017 AA | Project Manager | $ 120.06 |
| CLIN 0017 AB | Instructional Design and Development Specialist | $ 67.27 |
| CLIN 0017 AC | Senior Programmer | $ 99.00 |
| CLIN 0017 AD | Systems Analyst | $ 82.70 |
| CLIN 0017 AE | Software Systems Engineer | $ 93.04 |
| CLIN 0017 AF | Programmer/Analyst | $ 51.87 |
| CLIN 0017 AG | Junior Programmer | $ 71.40 |
| CLIN 0017 AH | Systems Engineer | $ 83.52 |
| CLIN 0017 AJ | Data Comm/Network Specialist | $ 69.72 |
| CLIN 0017 AK | RF Technical Radio Specialist | $ 67.13 |
| CLIN 0017 AM | Technical Training Specialist | $ 72.72 |
| CLIN 0017 AN | Technical Writer | $ 56.93 |
|  | **Incidental Materials (Cost Reimbursable)** |  |
| CLIN 0021 |  | $ - |
|  | **Travel (Cost Reimbursable)** |  |
| CLIN 0027 |  | $  **-** |