

Specification Sheet

HC700-i
iDEN model

**HANDHELD
COMPUTER**
**For Data, Imaging &
Emergency Voice
Applications**

Draft 16a



KEY FEATURES

Powerful Platform

- Intel® X-Scale PXA Processor
- 64 MB Flash, 64 MB SDRAM (128/128MB optional)
- Mini Secure Digital card option
- Windows Mobile 5 Phone
- Powerful Bar Code Imager
- Backlit 3.5", 64K Color LCD
- Industrial Grade Touch Panel
- Full Multimedia Capable
- Backlit Alpha-Numeric keypad
- Convenient Hand Strap

Productivity Tool

- Full shift operation
- Digital Signature Capture
- Snap Evidence Pictures
- Scan Barcodes from any Angle
- Direct Connect (Push-To-Talk)

All-in-One Wireless

- Infra-red (IrDA)
- Bluetooth (Class 2)
 - Compatible with Hands-Free Imager
- Wireless LAN (802.11b)
- iDEN dual-band WWAN (800/900 MHz) with assisted GPS

Wired Interfaces:

- USB
- RS-232

Built to Last

- IP64
- 6 ft drop
- -20°C to +60°C/-4°F to +140°F

MAJOR ACCESSORIES

Personal Desktop Cradle (HCC700)

- Charges HC700+spare battery
- RS232 pass-through; USB

Communication Cradle (HCC700-x)

- Charges 4 or 8 HC700
- Ethernet & RS232

Vehicle Adapter (HCV700)

- Charges single HC700

Belt/Shoulder Holster (FTN6839)

- Convenient carrying

Headset/Car Speakerphone

- Optional Bluetooth accessories



The HC700-i is a versatile, rugged device with integrated Bluetooth, WLAN and Wireless Wide Area Network communications with assisted GPS. It is intended to meet the stringent demands of enterprise customers in Transportation, Logistics, Utilities, Public Works/Services and Manufacturing.

The HC700-i carries the functionality of a state-of-the-art Personal Digital Assistant (PDA) in a rugged package that exceeds industry standards. A Software Development Kit facilitates development of 3rd party Windows Mobile applications. The HC700-i is the ideal portable solution for individual users or work teams in need of mobile data applications, such as:

- Parking & Traffic Violation Citations
- Remote Data Base Queries
- Job Ticketing & Field Service
- Sales Force & Asset Management

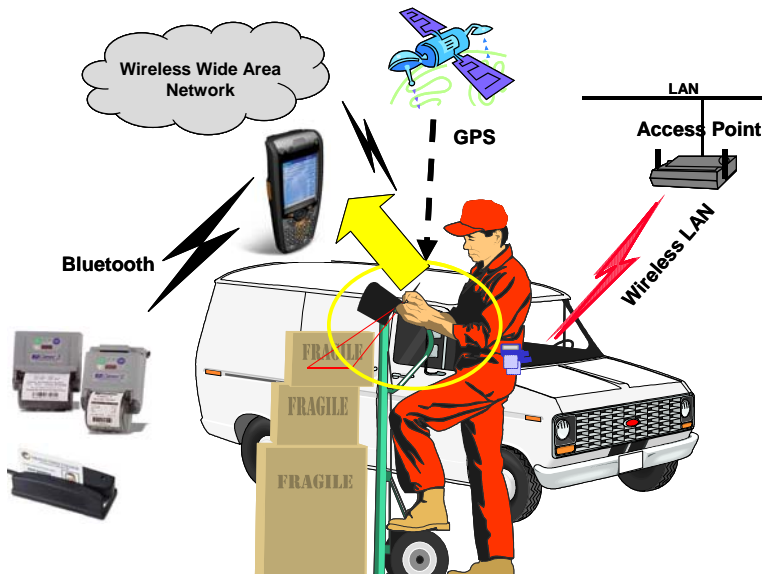
Personal Desktop
Cradle



Vehicle Adapter
Cradle



TYPICAL APPLICATIONS



The HC700-i incorporates a **Bluetooth** radio providing wireless connectivity to peripherals such as printers and magnetic-card readers, a **WiFi modem** for wireless local area and a **WWAN iDEN LPK modem** for wide-area connectivity and a **GPS**-based location services.

USAGE FEATURES



Touch screen digitizer and convenient stylus pen allow for easy on-screen selection and digital signature capture.



With the HC700-i, traffic & parking citations can be automated, capturing parking meter, vehicle and driver license barcodes while providing photo evidence of the offense.



1-D Linear

Postal Codes



Data Matrix

PDF417

TLC39

MicroPDF417

MaxiCode

EAN.UCC Composite

QR Code

Typical Bar-codes: 1-D Linear, Postal (top)
2-D Stacked, Matrix and Composite (bottom)



PTT

PTS

HC700-i has a dedicated Push-To-Talk (PTT) button, allowing the user to perform quick Direct Connect calls on iDEN. Two dedicated Push-To-Scan (PTS) buttons provide convenient image capture/bar-code scanning.

ELECTRICAL													
Processing Power	Microsoft® Windows® Mobile 5.0 for PocketPC Phone												
Operating System													
CPU	Intel® X-Scale PXA270™ @ 624 MHz												
Memory	128/64 MB or 128/128 MB Flash/SDRAM												
MemoryExpansion	Mini-Secure Digital, accessible protected slot												
Wired Interfaces	Multi-pin durable connector: - USB V1.1 Client - Full RS232												
Display	Type High-contrast, anti-reflective, transfective TFT display for bright daylight conditions; backlit for lowlight conditions												
	Size 3.5", software controlled landscape / portrait/ invertable for signature capture												
	Resolution QVGA (240 x 320 pixels)												
	Colors 65,536												
	Touch Panel Industrial grade resistive, anti-glare												
Keypad	Type Metal domes with tactile feedback; backlit for low-light conditions												
	Keys ABC alpha-numeric layout with numeric overlay, 5-way navigation key with center OK/Enter key												
	Additional Keys Push-To-Scan on both sides + in center Volume Control (Up/Down) top left side Voice Activation/Recording right side												
Bar Code Imager	1D or 2D HHP Adaptus™ imaging technology 752*480 pixel CMOS imager												
Supported Barcode Symbolologies and Postal Codes (enabled by default - in bold)	1D: Codabar, Code 39, Code 128, EAN-13, Interleaved 2 of 5, UPC-A , China Post, Codablock F, Code 11, Code 16K, Code 32 Pharmaceutical (PARAF), Code 49, Code 93 and 93i, EAN-8, ISBT 128, Matrix 2 of 5, Korea Post, MSI, Plessey Code, PosiCode, RSS-14, RSS Limited, RSS Expanded, Straight 2 of 5 IATA (two-bar start/stop), Straight 2 of 5 Industrial (three-bar start/ stop), Telepen, Trioptic Code, UPC-A with Extended Coupon Code, UPC-E, UPC-E1 2D plus: 4-CB, Aztec Code, ID-tag (UPU 4-State), MicroPDF417, PDF417 , Australian Post, Aztec Mesas, British Post, Canadian Post, Data Matrix, EAN•UCC Composite, Japanese Post, KIX (Netherlands) Post, MaxiCode, OCR, Planet Code, Postnet, QR Code, TCIF Linked Code 39 (TLC39)												
Image Aimer	Green LED; laser optional												
Image Illumination	Red & green LEDs												
Depth-of-Focus (DoF) with red illumination (typ.)	Distance varies with symbology/codes Near Far 5-11.4 cm (2.0-4.5") 15-33 cm (5.9-13")												
Field of View (FOV)	Around the nominal operating distance, pitch and skew: 40°, rotational 360° <table><tr><td>Distance</td><td>Vertical</td><td>Horizontal</td></tr><tr><td>12.7 cm (5")</td><td>6.1 cm (2.4")</td><td>9.6 cm (3.8")</td></tr><tr><td>17.8 cm (7")</td><td>8.6 cm (3.4")</td><td>13.2 cm(5.2")</td></tr><tr><td>22.9 cm (9")</td><td>10.9 cm (4.3")</td><td>17.0 cm(6.7")</td></tr></table>	Distance	Vertical	Horizontal	12.7 cm (5")	6.1 cm (2.4")	9.6 cm (3.8")	17.8 cm (7")	8.6 cm (3.4")	13.2 cm(5.2")	22.9 cm (9")	10.9 cm (4.3")	17.0 cm(6.7")
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Indicators	One tricolor power LED One tricolor application controlled LED												
Power Battery	Li-Ion, 1,800 mAh, 7.2V , user-replaceable, hot swap within 5 minutes												
Battery Life	10 h, application dependent												

AUDIO	
Internal Speaker	80 dBA SPL @ 10cm (at 2,700 Hz)
Volume Control	Up/Down (top left side button)
Earpiece	Low power audio level speaker 10 mW
Microphone	With noise canceling Sensitivity: -45 dB ±3 dB @ 1 kHz
Voice Recording	Start/Stop (side button)
Headset	Bluetooth headset (optional accessory)

PHYSICAL	
Weight	596 g (21 oz) fully loaded
Dimensions	H x W x D: 197.6 x 81.2 x 49.2 mm (7.78 x 3.20 x 1.94 in.) tapered down at grip to 62.6 mm (2.46") x 42.4 mm (1.67")

ENVIRONMENTAL	
Operating Temperature	-20° to +60°C (-4°F to 140°F) Some performance degradation below 0°C and above +50°C may occur.
Short-term Storage Temperature	-30 to +85°C (-22°F to 185°F) without battery
Relative Humidity	5-95% RH @50°C for 8h (non-cond)

DURABILITY	
Rain & Dust	IEC IP64 MIL-STD 810F, Method 506.4, Proc. III – drip rain
Salt Fog	MIL STD 810F, 509.4 Proc. I (8 h)
Vibration	MIL-STD 810F, 514.5, Fig 514.5C-1 TIA/EIA 603 Para. 3.3.4 when mounted in Vehicle Cradle
Shock - Functional Shock – Crash Hazard	MIL-STD 810F, 516.5, Proc. I MIL-STD 810F, 516.5, Proc. V, when mounted in Vehicle Cradle
Drop Resistance	MIL-STD 810F, 516.5 up to 1.8 m (6 ft)
Ball Impact	130 g (4.6 oz) steel ball drop from 35 cm (13.8") height
Electrostatic Discharge (ESD)	±15 kV air, ±8 kV contact per EN55024/EN61000-4-2
Solar Radiation	MIL-STD 810F, 505.4, Proc. I
Radiated Immunity	EN55024/EN61000-4-3
Electrical Fast Transients	EN55024/EN61000-4-4
Conducted RF Immunity	EN55024/EN61000-4-6

SOFTWARE TOOLS	
Development Tools	C++ Software Development Kit (SDK) for use with Microsoft Embedded Visual C++ 4.0 or Visual Studio 2005 C# SDK with Visual Studio 2005 and Common Framework 2.0
Bluetooth Modes	<i>Voice Profiles:</i> HSP (headset audio) <i>Data Profiles:</i> GAP, GEOP, SDP, SPP, DUN (client), FTP, LAN (client), OPP <i>Security Modes:</i> 1 and 3 + encryption

REGULATORY	
Product Safety	CUL60950-1 (UL listed in US & Canada), IEC/EN60950-1, 73/23/EEC LV Directive, Class 1 LED product per IEC60825-1 Ed1.2:2001
Flammability	ANSI/UL-94 and ASTM Standards
Radiated & Conducted Emission	CFR 47 FCC part 15, subpart B (class B); CE: EN55022 (class B), EN50081-1, EN61000-6-3

WIRELESS	
Infra-red	IrDA 1.1, SIR (9.6-115.2 kb/s)
WPAN	Bluetooth V1.2 Class 2; typ. 1 mW, min 10m
WLAN	IEEE802.11b with WEP, WPA (WiFi certif.) with PEAP/LEAP/EAP/TKIP support
WWAN	iDEN 800/900 MHz dual band - 0.6W <u>Network Services:</u> Digital Cellular Voice, Direct Connect (PTT), Packet Data & Circuit Data, aGPS for location based services, user-accessible SIMM-card, Private iDEN (Harmony)
Antennas	All internal

Specifications subject to change without prior notice



Refer to the Motorola web site <http://www.motorola.com/enterprise/>

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