CN4/ CN4e

Mobile Computer

- **3.5G wireless technology** supports simultaneous voice and data tasks improving worker productivity

- **Fully rugged** device and accessories perform despite bumps, knocks, dust and dirt (IP64 seal rating and 1.8m drop spec)

- **An extension to the successful CN3 Series**

- **Enhanced Mobile Document Imaging** captures full-page documents in field without the use of extra devices or services

- **Integrated GPS** enables unprecedented visibility into workers' routes

- **Industry standard platform ensures** devices will integrate quickly and easily

- **Full suite of Intermec Development Tools** reduces development costs and timelines

- **Medallion Complete service** provides protection against unbudgeted and rising repair costs

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

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

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

The CN4 Series features an optional imaging application called Intermec Enhanced Mobile Document Imaging (eMDI) which gives mobile workers a fast and reliable way to convert paper documents into electronic files. eMDI streamlines back office operations and improves cash flow by reducing time-to-billing for services

rendered because delivery confirmations can be imaged in the field and sent wirelessly to the home office. Your business gains real-time access to document images, via the enterprise system, which can be used to answer customer queries, issue invoices, and update records.

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

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

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

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

Intermec®

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

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

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

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

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

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

Microprocessor
Marvel PXA270M, 520 MHz

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

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

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

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

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

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

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

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

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

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

Integrated Camera Option
2.0 megapixel color camera with LED flash

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

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

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

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

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

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