

CN2 MOBILE COMPUTER FAMILY (CN2A & CN2B)



Product Profile

- **PDA form factor built to withstand the rigors of field use**
- **Delivers improved TCO over commercial grade devices**
- **Features and functionality common to higher priced, larger mobile devices**
- **Choices of radios, keypads and platforms to fit the job at hand**
- **SmartSystem™ device management capabilities for batch or real-time updates and maintenance**



The powerful CN2 family, including the CN2A and CN2B, combines the convenience of shirt pocket size for the ultimate in mobility, with all the ruggedness and reliability you've come to expect from Intermec, the number one supplier of rugged pocket PCs for the enterprise.¹

While the CN2A, with either batch or local area radio connectivity, is ideally suited for Store Operations/ Management applications within the Retail industry, the CN2B offers the addition of Microsoft® Windows Mobile and Bluetooth support, a good fit for Field Service, Direct Store Delivery, or In-Transit Visibility applications that can run in near-real-time by connecting to a mobile phone when integrated WWAN capabilities are not required.

While the CN2 family shares the compact form factor of a commercial PDA, including single-handed operation, the similarities stop there. The thoughtfully designed feature set is packaged to survive heat, humidity and multiple drops to concrete or steel, allowing you to minimize your total cost of ownership. Research has proven that investments in rugged mobile computing devices versus commercial grade pay off in a lower total cost of ownership as early as two years into the life of the device².

Device management capabilities are uncommon for this class of mobile computer; however both the CN2A and CN2B have integrated Intermec's SmartSystems™, a centralized one-to-one device management solution for remote support capability. The CN2 family also features Wavelink Avalanche™ for remote maintenance of entire populations

of devices. Both solutions allow the user to configure, update or maintain the CN2 mobile computers in real time or batch saving time and money.

This mobile computer family relies on the proven, powerful combination of the Intel® XScale™ processor with either the Microsoft® Windows CE or Windows Mobile operating system to deliver a perfect balance of real-time data collection performance with full-shift power management functionality required by the application demands of retail store management and field sales and service.

In addition, the CN2 family relies on Intermec's WiFi® certified 802.11 b/g radio, which ensures consistent performance by providing the best available wireless network throughput and reliability.

Both the CN2A and CN2B leverage the Intermec® EV10 linear scan engine with 3.3V low power operation to preserve battery life for mobile computing applications. With no moving parts and no laser diode, the EV10 has a longer life than any laser scanner (MTBF above 250Kh). Both the CN2A and CN2B have received Cisco Certified Extension (CCX) ensuring compatibility with a Cisco infrastructure.

The user accessible secure digital card slot provides more than sufficient data storage and back up capabilities for today's demanding applications.

¹ Venture Development Corporation (VDC); Intermec ranked #1 for 2004 Global Rugged Computer Market

² TCO Models for Mobile Computing and Communications Platforms, VDC, Dec. 2003

CN2 MOBILE COMPUTER FAMILY (CN2A & CN2B)

Physical Description

The CN2 family are rugged pen based hand-held mobile data collection computers featuring an embedded Microsoft® Windows® operating system and an Intel™ XScale™ PXA255 processor. The shirt pocket, PDA-like form factor, integrated linear imager and choice of radios make the CN2 family the ideal computers for the mobile worker. Although they share the same casing, the CN2A and CN2B are based on different architecture. Reference the following product specifications common to both the CN2A and CN2B as well as the product differentiation chart to determine the device that best meets your application requirements.

Physical Characteristics

Length: 147 mm (5.8 in.)
Height: 35 mm (1.4 in.)
Width: 86 mm (3.4 in.)
Weight: 370 grams (11.9 oz)

Hardware

Microprocessor: Intel XScale PXA255; 400 MHz
Display: 240 x 320 (1/4 VGA) transfective display with 3.5" diagonal supporting 16-bit color depth (65K colors) and resistive panel touch screen. Integrated stylus storage slot.

Software

Development Environments: Embedded Visual C++ 4.0, .NET Compact Framework (VB .NET and C#)
Browser Support: IE6 compatible
Software Development Kit: Supports device-specific features and bar code scanning
Bundled Productivity Applications: WordPad, Transcriber and Imager scan demo program

Scan Activation

Left/Right/Top scan buttons, with continuous scan mode.

Integrated radio

Data Rates: Up to 54 Mbps with 802.11g; 11 Mbps with 802.11b
Antenna: Internal
Standards Compliant: IEEE 802.11g (2.4 GHz - OFDM), IEEE 802.11b (2.4 GHz - DSSS)
Radio Power: 802.11g 16mW. 802.11b 30mW
Security: WEP, WPA, WPA 2, EAP-FAST, 802.1x (EAP-TLS, TTLS, LEAP, PEAP)
Certifications: Wi-Fi, WPA, Cisco Compatible logo indicates compatibility with a Cisco infrastructure

Device Management

SmartSystem™ Support: A centralized one-to-one device management solution for remote support capability. Also features Wavelink Avalanche™ for remote maintenance of entire populations of devices. Both solutions allow the user to configure, update or maintain the CN2 mobile computers in real time or batch.

Speaker

Loud (80 dB) programmable "beeper" with adjustable frequency and duration for scanning feedback or audio indicator under program control. The CN2B features an audio jack.

Power

Battery Type: Lithium-Ion 2150 mAh, 3.7V with 5 min. NiMH RAM backup
Battery Life: 8 or more hours at typical usage level
Recharging Cycle: 4 hours

Environmental Specifications

Humidity: 5 to 95% non-condensing

Electrostatic Discharge: 6KV contact, 12KV air
Vibration and Shock Protection: Tested to MIL-PRF-28800F standards

Accessories

I/O Interface: USB version 1.1 (through dock)
Serial Adapters: Snap-on for DB9 interface to serial or printer peripherals (externally powered)

Regulatory Approvals

UL and cUL Listed, GS Licensed, FCC Part 15, Industry Canada ICES-003 and RSS-210, Australia C-Tick, CE Mark, Japan Teleg



Product Differentiation Chart

	CN2A	CN2B
Operating System	Microsoft WinCE 4.2	Windows Mobile 2003
Memory Capacity	• 128 MB RAM/64 MB Flash	• 64 MB/64 MB
Wireless Technologies	• 802.11 b/g or Batch option	• 802.11 b/g and Bluetooth™
Keypad Options	• Navigation • 18 key numeric	• 22 key numeric
Bar Code Scanning	• Integrated 1D Linear Imager or scannerless option • Symbologies: Codabar; Code 39; Code 128; Interleaved 2 of 5, and limited forms of UPC and EAN.	• Integrated 1D Linear Imager • Symbologies: Codabar; Codablock A and F; Code 11; Code 39; Code 93 and 93i; Code 128; EAN 128; I 2 of 5; ISBT 128; MSI; Matrix 2 of 5; Plessey; RSS 14; RSS Limited; RSS Expanded; RSS 14 Stacked; RSS Omni-Directional; Standard 2 of 5; Telepen; UPC/EAN; UCC Composite CC-A, CC-B and CC-C; Micro PDF and PDF 417.
Environmental Specifications	• IP64, 26 drops from .91m (3 ft.) to steel or concrete Operating temp: 0 to 50° C (32° to 122°F) Storage temp: -10° to 50° C (14° to 122°F)	• IP54, 1.22m (4 ft.) drops to concrete using MIL standard 810F Operating temp: -10° to 50° C (14° to 122° F) Storage temp: -20° to 60° C (-4° to 140°F)
Accessories Supported	• Single USB client dock • Single USB modem dock* • Ethernet dock** • Vehicle dock** • AC wall adapter • Car charger** • Quad battery-pack charger** Dust cover, holster, spare battery, hand strap, stylus kit, screen protector kit.	• Single USB client dock • Single USB modem dock* • Vehicle dock** • AC wall adapter • Car charger** • Quad battery-pack charger** Dust cover, holster, spare battery, hand strap, stylus kit, screen protector kit.

* This dock supports USB client, modem and host for the CN2A; and USB client and modem only for the CN2B.

** Indicates Accessories that are planned but have not been released to the market