

# CN70 CN70e

Ultra-rugged  
Mobile Computers



The Intermec CN70 and CN70e are ideal for field mobility applications that demand a compact form factor with no compromise on ruggedness. Next generation architecture and purpose-built ergonomic design combined with market-leading wireless communications and data capture capabilities, deliver optimal worker productivity in the most demanding environments.

- Power-packed mobile computing in terms of size, weight and ruggedness
- Exceptional battery life for long device run time without extra size and weight
- Advanced barcode imaging technology with motion tolerance for snappy scanning and white illumination with laser aiming for high read rates
- Brilliant display with extended life touch panel
- On-board diagnostics provides device health visibility and reduces downtime
- Full compatibility with printers, application software, communications, and a complete set of peripherals and accessories enabling a comprehensive enterprise business solution

### **We Didn't Compromise; Neither Should You**

Selecting the optimal rugged mobile business solution that satisfies the needs and preferences of IT, Operations and the device user has often required trade-offs: size vs. ruggedness; weight vs. battery life; support and maintenance of multiple devices and platforms vs. a streamlined, single solution to perform different jobs and functions.

The no-compromise design of the CN70 and CN70e achieves true functional agility with the perfect balance of ruggedness, duty cycle and ergonomics.

The CN70 and CN70e's design is optimized for field mobility environments. Specifically the CN70 is optimal for mobile field service and transportation workers who need power and performance in a compact form factor. The CN70e offers the same power-packed computing but comes with a larger keypad design making it ideal for delivery environments where workers may be wearing gloves or have more data input intensive applications.

We have also surrounded the CN70 and CN70e with a complete set of intelligent business solution software, tools, services and training modules, delivered

by Intermec and our global network of best-in-class reseller and ISV partners, to create the smoothest and smartest possible integration into your workflows.

Every 70 Series mobile computer comes pre-loaded with Intermec's ScanNGo client to provide a premium device provisioning experience to simplify and expedite device staging operations. The standalone ScanNGo client enables CN70 and CN70e users to provision, configure and automatically download application software even over WWAN in a matter of seconds rather than minutes by simply reading pre-configured barcodes.

### **Every Second Counts**

Today's mobile worker is in a race against time and needs to get the job done right - right now. Spotty wireless coverage, weather extremes, damaged barcodes, dimly lit trucks, and heavy device wear and tear are the reality of their day.

The CN70 and CN70e meet these challenges head on with next generation features that save valuable seconds and deliver unparalleled reliability. Intermec's high performance imager provides optimal barcode scanning capabilities even in low light scanning environments

and unmatched motion tolerance and laser aiming for the snappiest speeds. These features eliminate costly delays in scan intensive applications.

Scratched and damaged displays, missing or unreadable keys not only slow your workers down, they reflect poorly on your company's image. The no-compromise design of the CN70 and CN70e include an all-light visible VGA display, high durability Gorilla® Glass touch panel and indestructible keypad technology to ensure that they stay in workers' hands instead of the repair depot.

The CN70 and CN70e's 3.75G WWAN and first-in-market dual-band 802.11n WLAN radios provide mobile workers with high-performance connectivity inside and outside the four walls. The 70 Series delivers rock solid performance and high throughput, even in areas where you might experience low signal levels or intermittent connections with traditional 802.11a/b/g products.

And by combining an ultra-efficient processing architecture with long-life battery technology and state-of-the-art battery health diagnostics, dead batteries and downtime will not only become a thing of the past, but will help improve your businesses' carbon footprint.

Protecting your company's revenue stream as well as finding new revenue sources is the lifeblood of staying competitive. Intermec's application development resource kits enable you to leverage data from the GPS radio, 5 megapixel auto-focus camera, barcode imager and sensors in innovative ways to develop new services and insights to your field operations.

### **Prevent a Problem Before It Exists**

The pace and competitiveness of business today doesn't allow for missed deadlines. Success depends on your ability to prevent a problem before it impacts your mobile workers' productivity, and ultimately your revenue and customers' satisfaction.

The CN70 and CN70e mobile computers' unique device health reporting capability provides insight never before available to allow mobile workers and IT administrators to monitor and prevent issues before they impact operations. Key sub-systems, including scanning, communications and battery life, can be monitored by either the mobile worker via an on-board dashboard utility or remotely through the SmartSystems™ console, resulting in better utilization of your mobile computing assets.

For customers who want a trusted partner to take over the day-to-day task of managing and troubleshooting their mobile devices and wireless infrastructure, Intermec's INcontrol Managed Services portfolio offers flexible, integrated mobile device and wireless network management services via a hosted web based tool set. Through INcontrol, technical experts from Intermec or one of its qualified PartnerNet members assume these tasks, allowing customers to track assets, secure network investments efficiently, and achieve a lower total cost of ownership (TCO).

### **Based on a Shared Platform**

The CN70 and CN70e are just two models out of four available in the 70 Series family. Each model offers a distinct, purpose-built form factor and includes choices of radios, keypads, imagers, software and services. This provides the ability to tailor a solution specific to each application area within your environment, supporting the preferences and needs of your employees without the added expense of supporting multiple device platforms.

With a single platform approach, the 70 Series family is unique in its ability to deliver the benefits that come with one computer architecture, common system software, one set of peripherals and one docking system to reduce infrastructure complexity and cost.

It brings simplicity to the frequent tasks of software updates, training new employees, managing spares pools and charging devices.

### **Break the Cycle of Infrastructure Replacement**

The 70 Series is supported by a new modular docking system designed to maximize your return on investment in charging and communications infrastructure. Called FlexDock, the system uses 2- or 4-position bases, combined with mobile computer and battery cups in any combination that tailor the base to your specific needs.

In addition to desktop or wall mounting, FlexDock offers mounting systems compatible with standard IT equipment racks for better backroom space utilization and smaller footprint requirements.

When it's time to upgrade equipment, cost and complexity are reduced because existing cups can be easily replaced with new cups corresponding to the next generation solution, allowing the original bases and supporting components to be reused.

### **Expect Reliability**

When the reliability, efficiency and accuracy of your operations are the foundation to your competitive advantage, there is no room for compromise. The Intermec 70 Series family of mobile computers provides unparalleled performance and reliability enabling your operations to run with the confidence that you can meet your goals every time.

## Physical Characteristics

### CN70 Dimensions with battery:

L x W x D: 16.9 x 8.0 x 3.4 cm (6.65 x 3.15 x 1.34 in)

Weight: 450 g (15.9 oz) with battery

### CN70e Dimensions with battery:

L x W x D: 19.5 x 8.0 x 3.4 cm (7.66 x 3.15 x 1.34 in)

Weight: 491 g (17.3 oz) with battery

## Environmental

**Operating Temperature:** -20° C to +60° C (-4° F to +140° F)

**Storage Temperature:** -30° C to +70° C (-22° F to +158° F)

**Charging Temperature:** +5° C to +35° C (41° F to 95° F)

**Relative Humidity:** Non-condensing, 95%

**Rain & Dust Resistance:** IP67

**Drop Specification:** 1.8m (6 ft) to concrete, across operating temperature range, per MIL-STD 810G 2000 - 1 meter tumbles

**Electrostatic Discharge:** +/- 15 kV air discharge; +/- 8 kV direct discharge

## Power

**Battery Pack:** Battery Pack: 3.7 V, 4000 mAh; IEEE 1725 compliant, Li-Ion, removable, rechargeable

## Operating System

Microsoft Windows Embedded Handheld built on Windows 6.5.3 technology

### Getting started information:

[www.windowsmobile.com/getstarted](http://www.windowsmobile.com/getstarted)

## Multi-Processor Architecture

Texas Instruments OMAP 3530 @ 600 MHz, multi-core processor with superscalar architecture

## Memory and Storage

**Memory:** 512 MB RAM (approximately 384 MB available)

**ROM:** 1 GB Flash (Approximately 800 MB available)

Customer-accessible micro-SD slot for removable memory cards up to 32 GB

## Display

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

## Standard Communications

USB - Full Speed 2.0 OTG®, USB - Full Speed 2.0 Client®

## Software

**Device Management:** Intermec SmartSystems™ support includes ScanNGo provisioning for use alone or with device management software from Intermec ISVs

**Device Health Monitoring:** Remote access requires SmartSystem Management option

**Application Development:** Intermec Developer Library  
[www.intermec.com/dev](http://www.intermec.com/dev)

## Apps & Components

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

## Data Management

Skynax® Mobile Communications

## Integrated Radios

**Wireless WAN:** UMTS / HSUPA

**UMTS Frequencies:** 800, 850, 900, 1900, 2100 MHz

**GSM/GPRS Frequencies:** 850, 900, 1800, 1900 MHz

**Technology Class:** UMTS HSUPA

**Max Speeds (Network Dependent):** Uplink - 5.76 Mbps  
Downlink - 7.2 Mbps

**Antenna:** Internal

**Wireless WAN:** CDMA/EVDO Rev. A

**CDMA Frequencies:** 800, 1900 MHz

**Max Speeds (Network Dependent):** Uplink - 1.8 Mbps  
Downlink - 3.1 Mbps

**Antenna:** Internal

**Wireless LAN:** IEEE®802.11 a/b/g/n Dual Band WLAN

**Security:** WiFi Certified for WPA and WPA2

**Authentication:** 802.1x

**Cisco Compatibility:** CCXv4

**Encryption:** WEP (64 or 128 bit), AES, TKIP

**Wireless PAN:** Integrated Bluetooth® Class II, Version 2.1+EDR

**Operating Channels:** 0 to 78 (2402-2480 MHz)

**Data Rates:** 1, 2, 3 Mbps

**Antenna:** Internal

## Global Positioning System

12 channel Integrated GPS; Network independent autonomous mode; supports assisted operation via WAN

## Sensor Technology

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

**Digital Compass:** Integrated, independent digital compass provides directional information

## Audio Support

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

## Integrated Scanner Options

EA30 high performance motion tolerant 2D Imager;

white LED illumination; red laser aimer optimized for all lighting conditions; 35 degree downward scan angle; capable of scanning all common 1D and 2D barcodes; 1D as small as 5 mil; PDF as small as 6.6 mil; Data Matrix as small as 7.5 mil; and standard UPC codes from distances up to 33 cm (13 in)

## Integrated Camera Option

5 Megapixel auto focus color camera with LED flash

## Keypad Options

All keypad options feature hard keycaps with laser-etched legends

**CN70:** Numeric keypad with backlit shifted plane legends



QWERTY keypad



**CN70e:** Large numeric keypad with backlit shifted plane legends



QWERTY numeric



## Intermec Global Services Support:

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

Maintain software and device configuration with INcontrol Managed Services. Current listing of all Intermec service products can be found at: [www.intermec.com/services](http://www.intermec.com/services)

## Accessories

FlexDock modular docking system, vehicle dock, vehicle holder, snap on adaptors, removable scan handle, and magnetic stripe reader

## Regulatory Approvals and Compliance

1000CP01, 1000CP01U, 1000CP01C

**Safety:** cULus Listed, DEMKO, BSMI (pending)

**EMC:** Class B - FCC/ICES/EN, GOST-R

**Radio:** FCC w/HAC, Industry Canada, CE 0981 A-tick (AU), C-tick (NZ), NCC (pending), OFTA (pending), IDA (pending), ICASA (pending), POSTEL (pending), NTC (pending), ETA (pending), SIRIM (pending), ANATEL (pending), 61 countries in total

**Environmental:** EU Directives-WEEE; RoHS; Batteries & Accumulators; Packaging & Waste Packaging

**Intermec**  
SmartSystems™



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