

# 70 Series

Ultra-rugged  
Mobile Computers



The Intermec 70 Series is the no compromise, next generation family of ultra-rugged mobile computers that combine high performance capabilities, with purpose-built designs into one common platform.

- Optimal device size, weight and ruggedness
- Choice of four ergonomic designs, one common platform
- Full compatibility with printers, application software, communications, peripherals and accessories integrating and enabling a comprehensive enterprise business solution
- On-board diagnostics and INcontrol Managed Services provide device health visibility
- Exceptional battery life to eliminate downtime
- Advanced imaging technology for remarkable read range, tolerance to motion and low light

### 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 device models and platforms vs. a streamlined, single solution.

Intermec is the first to take a no-compromise approach with the 70 Series: a family of purpose-built mobile computers sharing not only a common architecture, software build, peripherals and charging system to reduce complexity and cost of ownership, but also best-in-class drop ruggedness, battery life, highly durable touch panel and lifetime keypad technology—all in the smallest and lightest form factors in their class.

And because each of the 70 Series' designs are optimized for your application environments, we have surrounded it with a complete set of software, tools, services and training modules, both from us and from our PartnerNet ecosystem, to create the smoothest possible integration into your workflows.

### The Simplicity of One

Juggling multiple devices, vendors and service contracts introduces unwanted complexity and serves as a distraction from the goals of operational excellence and efficiency. Simple tasks become increasingly difficult when many device platforms and versions are involved.

With its single platform approach, the 70 Series is unique in its ability to deliver the benefits that come with one architecture, one software build, one set of peripherals and one charging system. It brings simplicity to the frequent tasks of software updates, training new employees, managing spares pools and charging devices.

The four form factors comprising the 70 Series include choices of radios, keypads, imagers, software and services providing you the flexibility to tailor a specific solution to meet the demands of your environment and the preferences and needs of your employees.

### **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 worker's productivity, on-time service delivery and ultimately your customers' satisfaction.

The 70 Series' 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 or remotely through the SmartSystems™ console resulting in optimization and better utilization of your mobile computing assets.

For customers who want to have a trusted partner to take over the day-to-day task of managing and troubleshooting their mobile devices and WLAN/WWAN 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, assumes these tasks allowing customers to track assets, secure network investments efficiently and achieve a lower total cost of ownership (TCO).

### **The Power to Work Smarter**

Today's mobile worker is in a race against time. Like the operations they support, their tolerance of even the smallest issues is limited because of the impact on their efficiency and ability to meet deadlines.

Yet dimly lit trucks and warehouses, damaged barcodes, spotty wireless coverage, weather extremes, and repeated device wear and tear are the reality of the mobile worker's day.

The 70 Series meets these challenges head on with next generation features that are standard on all four models.

Intermec's own advanced imaging options provide users remarkable near/far read range or extreme motion tolerant, low light performance saving valuable barcode reading seconds every day. Three of the 70 Series models have an angled scan window, allowing you to easily view the screen while scanning.

The no-compromise design also includes a high resolution (5 MP) auto-focus camera with flash. When coupled with Intermec's Enhanced Mobile Document Imaging (eMDI) software, mobile workers have a fast and reliable way to convert full size (8 1/2" x 11" or A4) paper documents into electronic files to improve cash flow and responsiveness to customer requests.

With the industry's first dual-band 802.11n WLAN radio, the 70 Series delivers rock solid performance and consistently fast response times, even in areas where you might experience low signal levels or intermittent connections with traditional 802.11a/b/g products.

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

The 70 Series is supported by a new flexible docking system designed to meet the current and future needs of customers who wish to maximize the return on their investment in charging and communications infrastructure.

The system uses a common 2- or 4-position base, combined with cups to adapt the base to a specific purpose.

Bases accept cups in any combination, allowing customization to address specific needs. Expanded mounting options facilitate use of standard IT equipment racks in addition to traditional wall mounting for better backroom space utilization and smaller footprint requirements.

When it's time to upgrade equipment, existing cups can be easily replaced with new cups corresponding to the upgraded equipment, allowing the original bases and supporting components to be reused, greatly reducing the cost and complexity of upgrading the charging and communications system in the future.

### **Confidence to Meet Your Goals**

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 of mobile computers provides unparalleled performance in extreme operating conditions enabling you to run your operations with the confidence that you can meet your goals consistently.

## Physical Characteristics

CN70

### Dimensions with battery:

L x W x D: 16.9 x 8.0 x 3.4 cm (6.66 x 3.14 x 1.35 in)

Weight: 450 g (15.2 oz) with battery

CN70e

### Dimensions with battery:

L x W x D: 19.5 x 8.0 x 3.4 cm (7.66 x 3.14 x 1.35 in)

Weight: 491 g (16.6 oz) with battery

CK70

### Dimensions with battery:

L x W x D: 23.7 x 8.0 x 4.3 cm (9.33 x 3.16 x 1.69 in)

Weight: 562 g (19 oz) with battery

CK71

### Dimensions with battery:

L x W x D: 23.7 x 8.0 x 5.0 cm (9.33 x 3.16 x 1.98 in)

Weight: 584 g (19.75 oz) with battery

## Environmental

**Operating Temperature:** -20° C to +60° C

(-4F° F to +140° F)

**Storage Temperature:** -30° C to +70° C

(-22° F to +158° F)

**Charging Temperature:** +0° C to +35° C

(32° F to 95° F)

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

**Rain & Dust Resistance:** IP67

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

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

## Power

CK70/CK71

**Battery Pack:** 3.7 V, 5200 mAh; IEEE 1725 compliant, Li-Ion, removable, rechargeable

CN70/CN70e

**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 superscalar multi-core processor

## 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

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

## Standard Communications

USB - Full Speed 2.0 Host®

USB - Full Speed 2.0 Client®

## Software Options

**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 & Communications

VERDEX, Skynax Mobile Communications, Mobile Document Imaging (eMDI), Intermec Client Pack (Terminal Emulator/Browser)

## Integrated Radios

**Wireless WAN:** UMTS / HSPA

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

**GSM/GPRS Frequencies:** 850, 900,

1800, 1900 MHz

**Technology Class:** UMTS HSPA

**Max Speeds (Network Dependent):** Uplink - 5.76

Mbps Downlink - 7.2 Mbps

**Antenna:** Internal

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

**CDMA Frequencies:** 800, 1900MHz

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

Downlink - 3.1 Mbps

**Antenna:** Internal

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

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

**Authentication:** 802.1x

**Cisco Compatibility:** CCKv4

**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 based on earth's magnetic field.

## Audio Support

Supports VoIP / Speech recognition / Push to talk applications; front and rear speakers; rear speaker has >80 dB at 40 cm (15.7 in); Unique 360 degree voice band audio coverage possible; Front receiver and front panel microphone for handset audio communication and audio recording; Wireless Bluetooth headset support; Wired headset support via a snap on adapter.

## Integrated Scanner

EA30 high performance 2D Imager; laser aimer;

### Capable of scanning:

1D and 2D barcodes as small as 5 mil; PDF as small as 6.6 mil; Data Matrix as small as 7.5 mil; and standard UPCs from as far as 33 cm (13 in)

**EV12 1D imager (CK71 only):**

1D with laser like imaging with standard range.

**EX25 2D imager (CK71 only):**

1D/2D imager with near-far capabilities from 15.2 cm to 15.2 m (6 in to 50 ft)

## Integrated Camera Option

5 Megapixel auto focus color camera with LED flash

## 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 equipment with INControl managed services Current listing of service locations can be found at: [www.intermec.com](http://www.intermec.com) --> Support --> Returns and Repairs --> Repair Locations

## Accessories

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

## Regulatory Approvals and Compliance

CN70 1000CP01, 1000CP01U, 1000CP01C

CN70e 1000CP02, 1000CP02U, 1000CP02C

CK70 1001CP01U, 1001CP01C

CK71 1001CP01

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

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

**Radio:** FCC w/HAC, Industry Canada, 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



**Keypad Options**

Back-lit, hard-capped,  
laser etched key caps

CN70

**Numeric:**



CN70e

**Large Numeric:**



CK70

**Alpha w/ Numeric:**



CK71

**Numeric w/ F-Keys:**



**QWERTY:**



**QWERTY-Numeric:**



**Alphanumeric:**



**Alphanumeric:**



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