

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: 19.9 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

Multi-Processor Architecture

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

Memory and Storage

Memory: 512 MB RAM (approximately 384 MB available)

RDM: 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 ScanGo 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

Apps & Communications

VERDEX, Skynax Mobile Communications, Mobile

Document Imaging (eMDI), Intermec Client Pack

(Terminal Emulator/Browser)

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 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: 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 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 --> 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 --> 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:



North America

Corporate Headquarters

6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America

Headquarters Office

Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America

Headquarters Office

Brazil
Phone: +55 11 5502.6770
Fax: +55 11 5502.6780

Europe/Middle East & Africa

Headquarters Office

Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific

Headquarters Office

Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet

www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales

Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales

Phone: (425) 348-2762

Media Sales

Phone: (513) 874-5882

Customer Service and Support

Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799

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SmartSystems™



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