

Product profile

CK70

Ultra-rugged Mobile Computer



The Intermec CK70 is the next-generation, ultra-rugged mobile computing solution – built on a common architecture and platform – designed to increase user efficiency and improve customer service and service level agreement (SLA) compliance in demanding courier express and parcel delivery environments.

- 12% smaller and lighter than leading devices in the ultra-rugged class
- Industry's fastest imaging engine delivering superior motion tolerance, laser aiming system, and optimized scanning angle *for maximum productivity*
- On-board diagnostics and INcontrol Managed Services provide device health visibility
- Best in class battery life for longer run time
- Part of Intermec's comprehensive enterprise business solution including printers, application software, communications, peripherals and accessories

We Didn't Compromise; Neither Should You

Today's courier express, parcel and postal operations are in a race against time. Dimly lit trucks and warehouses, damaged barcodes, incorrect addresses, spotty wireless coverage, and weather extremes pose never-ending challenges to the goals of improving customer service and SLA compliance.

When it comes to selecting the optimal rugged mobile business solution to help you meet these goals, you often face another challenge: satisfying the needs and preferences of IT, Operations and the device user without making a trade-offs.

Intermec is the first to offer a no-compromise solution with the CK70 ultra-rugged mobile computer. The CK70 meets your challenges head on with next generation features that focus on increasing efficiency and delivering unparalleled reliability for track & trace and proof of delivery applications, even in the most extreme conditions.

The design of the CK70 is specifically optimized for the courier express, parcel (CEP) and postal environments. In addition to being 12% smaller and lighter than other form factors in its ultra-rugged class, the CK70 supports workers in this

fast moving, mobile environment with an application specific keyboard layout that is both slender and back-lit to allow for effortless, all day single-handed use. Intermec has developed the industry's fastest imaging engine, capable of scanning barcodes moving at up to 12.7m (500 in) per second, enabling the CK70 to provide remarkable motion tolerance and high read rates even in a highly dynamic work environment. The CK70 aiming system, featuring bright white LED illumination and a red laser aimer optimized for all lighting conditions, projects downward at a 35° angle allowing easier scanning of barcodes on parcels and enabling your mobile workers to view the mobile computer screen *while* scanning.

Reliability You Can Count On

Scratched, damaged displays and missing or unreadable keys not only slow your workers down, they reflect poorly on your company's image. The CK70 includes a brilliant VGA display with a wear-resistant Gorilla™ Glass touch panel providing twice the service life of older touch panel technologies. Industrial grade polycarbonate keys with indestructible laser-etched legends ensure that the CK70 stays in your workers' hands instead of the repair depot.

By combining a multi-processor architecture that delivers up to three times the performance at half the power consumption of legacy processors along with state-of-the-art battery health diagnostics, the CK70 can be relied upon to deliver the power and performance you require, for even your longest routes, as well as reduce the expense of replacement batteries.

The CK70 not only offers you the highest throughput available with a 3.75G WWAN radio, but also a choice of either UMTS/HSPA or CDMA/EVDO Rev A. And with the industry's first dual-band 802.11n WLAN radio, mobile workers returning to sorting and distribution facilities will enjoy rock solid performance and high throughput, even in areas where they might experience low signal levels or intermittent connections with traditional 802.11a/b/g products.

The Power to Work Smarter

We have surrounded the CK70 with a complete set of intelligent business solution software, tools, services and training modules, 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 CK70 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.

When the CK70 is coupled with Intermec's VERDEX software, parcel pick-up and delivery workers have all the technology needed to quickly verify address data using a VERDEX powered mobile application. This reduces the volume and associated costs of undeliverable items by correcting address errors *before* they enter your system or arrive at your sorting hub. By providing visibility to items hours earlier than current processes, VERDEX and the CK70 allow you to achieve better downstream planning.

Intermec's application development resource kits enable you to utilize data from the barcode imager, camera, keyboard, touch panel, GPS receiver, sensors, and other input sources in innovative ways to develop new services for your customers. If you've developed applications using Intermec resource kits for previous Intermec products, you'll be able to easily migrate them to the CK70.

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 identify and prevent problems before they impact your mobile workers' productivity, and ultimately your customers' satisfaction.

The CK70 mobile computer's 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 Intermec SmartSystems™ console resulting in optimization and 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 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, 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 CK70 is just one model out of four ergonomic designs that are available in the 70 Series family. Each model includes choices of radios, keypads, imagers, software and services providing you the

option of tailoring a *specific* solution to meet the various application areas within your environment and the preferences and needs of your employees.

With a single platform approach, the 70 Series family is unique in its ability to reduce infrastructure complexity and cost. The single computer architecture, software build, set of peripherals and charging system that is shared between the 70 Series products brings simplicity to the frequent tasks of software updates, training new employees, managing spares pools and charging devices.

Break the Cycle of Infrastructure Replacement

All of the 70 Series products are supported by a new docking system designed to maximize the return on your investment in charging and communications infrastructure and greatly reduce the space you must devote to it. Called FlexDock, the system uses a common 2- or 4-position base, combined with cups for mobile computers and battery packs in any combination, to adapt the base your specific needs.

In addition to wall mounting, FlexDock offers expanded mounting options to facilitate the use of 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.

Your Customer Expects 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 CK70, and the 70 Series family of mobile computers, provides unparalleled performance and reliability enabling you to run your operations with the confidence that you can meet your goals every time.

Physical Characteristics

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

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: 3.7 V, 5200 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, 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

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

Cisco Compatibility: CCXv4

Authentication: 802.1x

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

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

Both keypad options feature hard keycaps with laser-etched legends

Large Alpha with backlit
Numeric legends



Alphanumeric



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

Accessories

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

Regulatory Approvals and Compliance

1001CP01U, 1001CP01C

Safety: cULus Listed, DEMKO, BSMI (pending)

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

Radio: FCC w/HAC, Industry Canada, CE 0981 0, 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

mit

MIT S.r.l

Via Trieste 90/A

48122

Ravenna (RA)

Phone: +39 0544 591305

Fax: +39 0544 426399

Web Site: www.mitweb.it

Intermec
SmartSystems™



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