

# 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 Intermecc'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 Intermecc'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.

Intermecc'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 Intermecc resource kits for previous Intermecc 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 Intermecc 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, Intermecc'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 Intermecc 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 Intermecc 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

Width: grip area 6.42 cm (2.53 in)

## 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:** 2.4 m (8ft.) to concrete per MIL-STD 810G, 1.8m (6 ft) to concrete across operating temperature range per MIL-STD 810G

2,000 (1m) tumbles per IEC 60068-2-32 specification

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

## Multi-Engine Processor Architecture

Texas Instruments® 600MHz OMAP3® multi-engine processor architecture including dedicated DSP s for high performance imaging and audio processing

## Memory and Storage

**Memory:** 512 MB RAM

**ROM:** 1 GB Flash

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® IrDA

## 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

**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

## 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](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 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 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

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