

70 Series RFID

Ultra-Rugged Mobile Computer with Integrated Passive UHF Reader



CK70 RFID

CN70e RFID

CN70 RFID

The Intermec 70 Series RFID is the no-compromise, next generation family of ultra-rugged mobile computers that add passive UHF reading to the already impressive feature set of 70 Series devices.

- Fully integrated UHF RFID reader with no visible external antenna
- Advanced RFID read performance in the industry's most compact ultra-rugged design
- Choice of three ergonomic designs, one common platform
- Full compatibility with Intermec printers, application software, communications, peripherals and accessories integrating and enabling a comprehensive enterprise business solution
- Exceptional battery life helps to eliminate downtime
- Advanced bar code scanning performance delivers remarkable snappiness, tolerance to motion and low light

The No-Compromise Solution is Now RFID Enabled

When it comes to accomplishing routine data collection tasks with greater efficiency and accuracy, the 70 Series RFID mobile computers are the answer. These devices combine advanced RFID reading and a no-compromise design with best-in-class ruggedness, battery life, and ergonomics. Intelligently designed into three different form factors yet built on a singular core platform, the 70 Series RFID gives you the benefits of specialized devices with the reduced complexity and cost savings that come from adopting a common platform.

Adding RFID capability to 70 Series mobile computers has not come at the expense of size and weight. A fully integrated design utilizing Intermec's IM11 embedded module—along with an internally housed antenna—enables advanced RFID read performance while maintaining the already-compact form factor of the 70 Series. The result is a fully integrated mobile platform that meets or exceeds typical RFID read range requirements, in a design that is more compact and comfortable to use than competing devices.

The Simplicity of One

With its single platform approach, the 70 Series RFID 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.

Break the Cycle of Infrastructure Replacement

The 70 Series RFID is fully compatible with the entire suite of original 70 Series accessories, including the FlexDock modular docking system designed to meet your current and future charging and communication needs while maximizing the return on your accessory investment. For details on compatible accessories, see the [70 Series Accessory Guide](#).

Part of a Complete RFID Solution

Intermec RFID readers, printers, tags, and Smart Labels are optimized to provide superior performance when used together. Our RFID readers, printers and labels are complemented by a complete line of integrated solutions and services including rugged mobile computers, RFID systems and deployment services and are used by customers worldwide to improve productivity, quality, and responsiveness in their business operations.

Physical Characteristics

CN70 RFID

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 RFID

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

CK70 RFID

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*

(-4F° 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: 2.4m (8 ft.) 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

*Max Ambient: 50° C T6

Power

CK70 RFID

Battery Pack: 3.7 V, 5200 mAh; IEEE 1725 compliant, lithium ion, removable, rechargeable

CN70/CN70e RFID

Battery Pack: 3.7 V, 4000 mAh; IEEE 1725 compliant, lithium ion, removable, rechargeable

Operating System

Microsoft Windows Embedded Handheld built on Windows 6.5.3 technology. Getting started information: www.windowsmobile.com/getstarted

Multi-Engine Processor Architecture

Texas Instruments 1GHz OMAP3 multi-engine processor architecture

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
- 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®

IrDA

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

Apps & Components

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

Data Management

Skynax® Mobile Communications

Integrated Radios

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

Security: WiFi Certified for WPA and WPA2, WAPI Certified

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

UHF RFID

Frequency: 902-928 MHz (US/Canada) or

865-868 MHz (EU)

Standards: EPCglobal Class 1 Gen 2, ISO 18000-6C

Maximum Output Power: 30 dBm (1 W)

Antenna: Internal, orientation insensitive

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 has

>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 a 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, DataMatrix 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

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.

Intermec Global Services provides customers and partners with best-in-class support and advanced services. Intermec Medallion® Services deliver the highest levels of productivity, device reliability, and uptime.

Accessories

See [70 Series Accessory Guide](#)

Regulatory Approvals and Compliance

CN70 RFID: 1000CP01F9, 1000CP01F8

CN70e RFID: 1000CP02F9, 1000CP02F8

CK70 RFID: 1001CP01F9, 1001CP01F8

Safety: cULus (pending), DEMKO

EMC: Class B - FCC/ICES/EN

Radio: FCC, Industry Canada, CE (Europe), 34 countries in total

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

Regulatory Approvals and Compliance for Non-Incendive Models

Specific non-incendive models in the 70 Series RFID family are suitable for use in the following Division 2 locations:

Safety: cULus (pending) - ISA/ANSI 12.12.01

Gases: Class I - Groups A, B, C, D

Dusts: Class II - Groups F, G

Fibers and Flyings: Class III

* Max Ambient: 50° C T6

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