# CN70/CN70e

## Ultra-Rugged Mobile Computers

Honeywell CN70 and CN70e Ultra-Rugged Mobile Computers achieve true functional agility with the perfect balance of ruggedness, duty cycle and ergonomics. The CN70 is optimal for mobile field service and transportation workers who need power and performance in a compact form factor. The CN70e offers the same power-packed computing and comes with a larger keypad design, making it ideal for delivery environments where workers may be wearing gloves or have more data input–intensive applications. Extend the use of the CN70 and CN70e mobile computers into hazardous locations with the non-incendive certified (Div. 2) CN70 and CN70e.

The CN70 and CN70e mobile computers offer features that save valuable seconds and deliver unparalleled reliability. Honeywell's high-performance imager provides optimal barcode scanning capabilities even in low-light scanning environments, and unmatched motion tolerance and laser aiming for the snappiest speeds. The no-compromise design of the CN70 and CN70e mobile computers includes an all-light visible VGA display, high-durability Gorilla® Glass touch panel and virtually indestructible keypad technology to ensure that they stay in workers' hands instead of the repair depot. The 70 Series also includes an industrial-grade processor that offers faster performance with lower power consumption.

The CN70 and CN70e mobile computers extend their no-compromise design to radio connectivity as well. Their wide-area solutions feature a Flexible Network data-only radio that operates on any type of network, offering switch-on-the-fly network selection capability and eliminating the need for multiple pools of devices dedicated to one network.

The CN70 and CN70e mobile computers' unique device health reporting capability provides insight to enable mobile workers and IT administrators to monitor and prevent issues before they impact operations. Key subsystems, including scanning, communications and battery life, can be monitored by either the mobile worker via an on-board dashboard utility or remotely through the Honeywell SmartSystems™ Foundation management console.

The CN70 and CN70e mobile computers are just two models out of four available in the 70 Series family. Each model offers a purpose-built form factor and includes choices of radios, keypads, imagers, software and services. This provides the ability to tailor a solution specific to each application area within your environment, supporting the preferences and needs of your employees without the expense of supporting multiple device platforms.

*The CN70/CN70e mobile computers are ideal for mobility applications that demand a compact form factor with no compromise on ruggedness.*

## FEATURES & BENEFITS

Flexible radio technology provides optimal network coverage and a superior solution for implementing low-cost routing strategies.

Advanced barcode imaging technology with motion tolerance for snappy scanning and white illumination with laser aiming for high read rates.

On-board diagnostic tools provide device health visibility to help reduce downtime.

Full compatibility with printers, application software, communications and a complete set of peripherals and accessories.

Non-incendive option for hazardous locations.

# CN70/CN70e Technical Specifications

## PHYSICAL CHARACTERISTICS

**CN70 Dimensions with Battery (L x W x D):**
16.9 cm x 8.0 cm x 3.4 cm
(6.65 in x 3.15 in x 1.34 in)
**Weight:** 450 g (15.9 oz) with battery
**CN70e Dimensions with Battery (L x W x D):**
19.5 cm x 8.0 cm x 3.4 cm
(7.66 in x 3.15 in x 1.34 in)
**Weight:** 491 g (17.3 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 and Dust Resistance:** IP67
**Drop Specification:** 2.4 m (8 ft) to concrete per MILSTD 810G; 1.8 m (6 ft) to concrete across operating temperature range per MIL-STD 810G; 2,000 (1 m) tumbles per IEC 60068-2-32 specification
**Electrostatic Discharge:** +/-15 kV air discharge; +/-8 kV direct discharge

## POWER

**Battery Pack:** 3.7 V, 4000 mAh; IEEE 1725 compliant, Li-Ion, removable, rechargeable

## OPERATING SYSTEM

Microsoft® Windows® Embedded Handheld 6.5
Texas Instruments 1 GHz OMAP multi-engine processor architecture

## MEMORY AND STORAGE

**RAM:** 512 MB
**ROM:** 1 GB Flash
Customer-accessible micro-SD slot for removable memory cards up to 32 GB

## DISPLAY

8.9 cm (3.5 in) Transflective 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 Host, USB – Full Speed 2.0 Client IrDA

## SOFTWARE APPLICATIONS AND COMPONENTS

Optional Honeywell Enterprise Client Pack (Terminal Emulation HTML5 Browser)

## DATA MANAGEMENT

Skynax® Mobile Communications

## INTEGRATED RADIOS

**Wireless WAN Options**
**Data and Voice Options**
  UMTS/HSUPA
  **UMTS Frequencies:** 800, 850, 900, 1900, 2100 MHz
  **GSM/GPRS Frequencies:** 850, 900, 1800, 1900 MHz
  **Max Speeds (Network Dependent):**
  Uplink – 5.76 Mbps; Downlink – 7.2 Mbps
  CDMA/EVDO Rev. A
  **CDMA Frequencies:** 800, 1900 MHz
  **Max Speeds (Network Dependent):**
  Uplink – 1.8 Mbps; Downlink – 3.1 Mbps
**Data-Only Option**
  Flexible Network
  **UMTS/HSPA+ Frequencies:** 800, 850, 900, 1700, 1900, 2100 MHz
  **GSM/GPRS/EDGE Frequencies:** 850, 900, 1800, 1900 MHz
  **Max Speeds (Network Dependent):**
  Uplink – 5.76 Mbps; Downlink – 14.4 Mbps
  **CDMA/EVDO Frequencies:** 800, 1900 MHz
  **Max Speeds (Network Dependent):**
  Uplink – 1.8 Mbps; Downlink – 3.1 Mbps
**Wireless LAN:** IEEE® 802.11 a/b/g/n Dual Band WLAN
**Security:** Wi-Fi 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

## KEYPAD OPTIONS

All keypad options feature hard keycaps with laser-etched legends.

**CN70:**
Numeric keypad with backlit shifted plane legends



QWERTY keypad



**CN70e:** Large numeric keypad with backlit shifted plane legends



QWERTY keypad



Calculator with backlit shifted plane legends

# CN70/CN70e Technical Specifications

## 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 OPTIONS
**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; standard UPC codes from distances up to 33 cm (13 in)

## INTEGRATED RFID READER OPTION
The CN70 and CN70e mobile computers are available with integrated UHF RFID reading capabilities.

## INTEGRATED CAMERA OPTION
5-megapixel auto-focus color camera with LED flash

## GLOBAL SERVICES CONTACT FOR SUPPORT
www.hsmcontactsupport.com
**Public Knowledgebase Articles:**
www.hsmknowledgebase.com

Telephone support available in North America (800-782-4263). Outside of this area, contact your local representative.

## ACCESSORIES
FlexDock modular docking system, vehicle dock, vehicle holder, snap-on adaptors, removable scan handle, magnetic stripe reader, 6822 full-page printer and PW50 workboard printer

## REGULATORY APPROVALS AND COMPLIANCE
1000CP01, 1000CP01U, 1000CP01U-H1, 1000CP01C-H1, 1000CP02, 1000CP02U, 1000CP02U-H1, 1000CP02C-H1
**Safety:** cULus Listed, DEMKO, BSMI
**EMC:** Class B – FCC/ICES/EN, GOST-R
**Radio:** FCC w/HAC, Industry Canada, CE0981, A-tick (AU), C-tick (NZ), NCC, OFTA, IDA, ICASA, POSTEL, NTC, ETA, SIRIM, ANATEL, 61 countries in total
**Environmental:** EU Directives-WEEE; RoHS; Batteries and Accumulators; Packaging and Waste Packaging

## NON-INCENDIVE VERSION
70 Series family with NI certification complies with the following:
**Suitable for use in Division 2 locations**
**Safety:** cULus Listing – ISA/ANSI 12.12.01
**Gases:** Class I – Groups A, B, C, D
**Dusts:** Class II – Groups F, G
**Fibers and Flyings:** Class III

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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**For more information**
www.honeywellaidc.com

**Honeywell Safety and Productivity Solutions**
9680 Old Bailes Road
Fort Mill, SC 29707
800-582-4263
www.honeywell.com

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