

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 MIL-STD 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



Honeywell

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](http://www.honeywellaidc.com/compliance).

For a complete listing of
all supported barcode
symbolologies, please visit
[www.honeywellaidc.com/
symbolologies](http://www.honeywellaidc.com/symbolologies).

Microsoft and Windows
are trademarks or
registered trademarks of
Microsoft Corporation.

The Bluetooth trademarks
are owned by Bluetooth
SIG, Inc. U.S.A. and
licensed to Honeywell
International Inc.

Gorilla Glass and
Corning are registered
trademarks or trademarks
of Corning, Inc.

SmartSystems and
Skynax are trademarks
or registered trademarks
of Honeywell
International Inc.

All other trademarks
are the property of their
respective owners.

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