CN75

Ultra-Rugged Mobile Computer

The Honeywell CN75 and CN75e mobile computers offer the versatility customers demand, providing the choice of a Windows® or Android™ operating system on a single device to meet changing enterprise business demands.

The CN75 and CN75e mobile computers' no-compromise design provides the power and performance required by today's mobile field service and transportation workers.

The no-compromise design is powered by a 1.5 GHz dual-core, multi-engine processor with 2 GB RAM and 16 GB Flash, offering the highest degree of future-proofing capability.

Specifically designed for mobile field service workers who need power and performance in a compact form factor, the Honeywell CN75 mobile computer offers the perfect balance of ruggedness, duty cycle and ergonomics while providing unparalleled versatility. The CN75e device offers the same power-packed computing but with a larger keypad design, making it ideal for delivery environments where workers may be wearing gloves or have more data input–intensive applications.

The CN75 and CN75e mobile computers deliver unparalleled reliability with smart battery technology that provides enough power to last a full work shift, eliminating dead batteries and downtime. The CN75 and CN75e mobile computers are also equipped with a high-performance imager that provides fast and accurate barcode scanning capabilities even in low-light scanning environments, with unmatched motion tolerance to eliminate costly delays in scan-intensive applications.

The no-compromise design extends to radio connectivity, as well. The wide-area solutions feature a Flexible Network voice and data WWAN radio that operates on networks worldwide, offering switch-on-the-fly network selection capability and eliminating the need for multiple pools of devices dedicated to one network.

FEATURES AND BENEFITS

Supports Windows Embedded Handheld 6.5 and Android 6.0 Marshmallow operating systems for flexible application support and migration.

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

Withstands 2.4 m (8 ft) drops to concrete, 2,000 (1 m) tumbles and has an IP67 seal rating against rain and dust.

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

Full compatibility with printers, application software, communications and a complete set of peripherals and accessories, enabling a comprehensive enterprise business solution.

ENERGY ELECTRONICS

Honeywell

CN75/CN75e Technical Specifications

PHYSICAL CHARACTERISTICS

CN75 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
CN75e 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 Spec: 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 or Android 6.0 Marshmallow with GMS

MULTI-ENGINE PROCESSOR ARCHITECTURE

Texas Instruments 1.5 GHz OMAP 4470 dual-core, multi-engine processor architecture

MEMORY

RAM: 2 GB
ROM: 16 GB Flash
Storage Expansion: Customer-accessible micro-SD slot for removable memory cards up to 32 GB

DISPL AY

8.9 cm (3.5 in) Transmissive VGA
480 x 640 pixels
65,536 (16-bit RGB) colors
High-durability touch screen
Hardened Corning® Gorilla® Glass display for superior durability
LED backlight
Ambient light sensor

STANDARD COMMUNICATIONS

USB – Full Speed 2.0 Host, USB – Full Speed 2.0 Client

SOFTWARE APPLICATIONS AND COMPONENTS

Device Management:
SmartSystems™ Foundation provides a single, integrated environment for hands-free deployment and management of devices on-site or remote. Also compatible with leading third-party data and device management products.
ScanNGo for easy barcode-based enterprise-wide device provisioning. It can be used to download device management software from Honeywell ISVs.
CloneNGo, a peer-to-peer device management software that enables simple device cloning, eliminating the need to use a management console for device provisioning.
Application Development: Honeywell Developer Library
Device Health Monitoring: On-board monitoring of key subsystems including scanning, communications and battery life
Optional Honeywell Enterprise Client Pack: Terminal Emulation and HTML 5 Browser
Optional Launcher: Application locking

DATA MANAGEMENT

Skynax® Mobile Communications

INTEGRATED RADIOS

Wireless WAN: Worldwide Voice and Data (can switch between UMTS and CDMA radio networks)

UMTS/HSPA+
UMTS Frequencies: 800, 850, 900, 900, 2100 MHz
GSM/GPRS/EDGE Frequencies: 850, 900, 1800, 1900 MHz
Max Speeds (Network dependent): Uplink – 5.76 Mbps; Downlink – 14.4 Mbps
CDMA/EV-DO Rev A
Dual Band CDMA2000 Bands: BC0 & BC1 (800/1900 MHz)
Max Speeds (Network Dependent): Uplink – 1.8 Mbps; Downlink – 3.1 Mbps
Wireless LAN: IEEE 802.11 a/b/g/n
Security: Wi-Fi Certified for WPA and WPA2,
Authentication: 802.1x
Cisco Compatibility: CCXv4
Encryption: WEP (64- or 128-bit), AES, TKIP
Wireless PAN: Integrated Bluetooth® Power Class 1.5 Version 4

GLOBAL POSITIONING SYSTEM

(with WAN Radio Option): 12-channel integrated GPS; network-independent autonomous mode; supports assisted operation via XTRA®, CP E911
GPS dedicated AT commands
Protocol: NMEA-0183 V2.3
Tracking Sensitivity: better than -158 dBm
GLONASS support

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 ommunication and audio recording; ireless Bluetooth headset support; wired headset support via snap-on adapter

INTEGRATED SCANNER

EA30 High-Performance Motion-Tolerant 2D Imager: (up to 500 in/s) white LED illumination; red laser aimer and framer optimized for all lighting conditions. Capable of scanning all common 1D and 2D barcodes; 1D as small as 4 mils; 2D as small as 6.6 mils. Refer to User's Manual for depth-of-field performance.

INTEGRATED CAMERA

5-megapixel auto-focus color camera with LED flash

KEYPAD OPTIONS

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

CN75:

NUMERIC KEYPAD QWERTY KEYPAD

CN75e:

LARGE NUMERIC KEYPAD LARGE QWERTY KEYPAD

CN75/CN75e Technical Specifications

HONEYWELL GLOBAL SERVICES SUPPORT

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

CN75LAN, CN75WAN
Safety: cULus Listed, BSMI
EMC: Class B – FCC/ICES/EN, GOST-R
Radio: FCC, Industry Canada, A-tick (AU), NCC, IDA,
ICASA, POSTEL, NTC, ETA, SIRIM, ANATEL
Environmental : EU Directives-WEEE; RoHS; Batteries and Accumulators; Packaging and Waste Packaging

NON-INCENDIVE VERSION

CN75 and CN75e with NI certification comply 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
***Max. Ambient:** 50°C (122°F) T6

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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