

CN51 Mobile Computer

The Honeywell CN51 Mobile Computer offers unparalleled versatility, allowing the choice of Windows® or Android™ operating systems on a single device coupled with a power-packed 1.5 GHz dual core, multiengine processor, 1 GB RAM and 16 GB Flash for the highest degree of future-proofing capability.

Designed for a superior user experience, the CN51 computer's large, multi-touch, outdoor-readable screen provides ample room for application viewing with less scrolling and greater productivity, as well as more space for capturing signatures. It's also equipped with state-of-the-art smart battery technology, delivering enough power to last a full shift and reducing the cost for replacement batteries.

The CN51 computer is equipped with a high-performance imager that provides quick and accurate barcode scanning capabilities even in low light scanning environments, with unmatched motion tolerance to eliminate costly delays and user frustration during scan-intensive applications.

The 5-megapixel color camera combined with Honeywell's cutting-edge image processing technologies deliver advanced capability beyond reading barcodes. Mobile Document Imaging (MDI) and Remote Deposit Capture (RDC) provide a fast and reliable way to convert full-size paper documents or check payments into electronic files while out on the road, transmitting directly from the point of capture to the back-office workflow.

Enterprises with large, geographically dispersed workforces need adaptable network coverage. The CN51 computer answers the call with its voice-capable Flexible Network Radio (in North America), allowing the same device to operate on either CDMA or



With its multi-touch, outdoor-readable screen, long battery life, and highly accurate barcode scanning capabilities, the CN51 Mobile Computer offers unparalleled versatility and performance for mobile workers.

UMTS wireless networks. Depending on which network provides the best geographic coverage or the lowest cost, the CN51 computer can be switched on the fly, should coverage needs change.

Industry-leading software and services solutions like CloneNGo offer breakthrough device provisioning that makes it easy to replicate a master configuration across an unlimited number of devices to get up and running quickly. Honeywell SmartSystems™ Foundation also monitors key subsystems, including scanning, communications and device health, to prevent issues before they impact operations.

Honeywell's support services help protect your investment by reducing unexpected operational impacts of network communication issues and minimizing device downtime due to accidental breakage.

FEATURES & BENEFITS

MULTI OS

Supports Microsoft® Windows Embedded Handheld 6.5 and Android 4.2.2 operating systems for flexible application support and migration.*



Large 4" brilliant WVGA multi-touch display allows for more graphical user interface, display-centric applications.



Withstands multiple 1.5 m (5 ft) drops to concrete across the operating temperature range and has an IP64 seal rating against rain and dust.



Features best-in-class motion tolerance, and support for omnidirectional 1D and 2D barcode scanning.



Features best-in-class motion tolerance, and support for omnidirectional 1D and 2D barcode scanning.

* Limited configurations available for the Android version; please consult your sales representative.

CN51 Technical Specifications

PHYSICAL CHARACTERISTICS

Dimensions with Battery (L x W x D):
164 x 74 x 28 mm (base of unit) or 32 mm (top of unit) (6.45 x 2.93 x 1.09 or 1.26 in)
Weight with Battery: 350 g (12.3 oz)

ENVIRONMENTAL

Operating Temperature:
-10° C to +50° C (+14° F to +122° F)
Storage Temperature:
-20° C to +70° C (-4° F to +158° F)
Charging Temperature:
+5° C to +35° C (+41° F to +95° F)
Relative Humidity: Non-condensing, 95%
Rain & Dust Resistance: IP64
Tumble Specification: 1,000 - 0.5 m (1.6 ft) tumbles at room temperature
Drop Specification: 26 drops from 1.5 m (5 ft) to concrete across the operating temperature range per MIL-STD 810G
Electrostatic Discharge:
± 15kV air discharge, ± 8kV direct discharge

POWER

Smart Battery Pack: 3.7V, 3920 mAh; batteries are IEEE 1725 compliant, Li-Ion, removable, rechargeable.

OPERATING SYSTEM

Microsoft Windows Embedded Handheld 6.5 or Android 4.2.2 with GMS*

MICROPROCESSOR

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

MEMORY & STORAGE

Memory: 1 GB RAM
ROM: 16 GB Flash
Customer-accessible micro-SD slot for removable memory cards up to 32 GB

DISPLAY

- 10.16 cm (4.0 in), 480 x 800 pixel (WVGA) TFT-LCD display
- LCD supports 24 bpp color depth
- LED backlight
- Ambient light sensor
- Resistive multi-touch touch panel

STANDARD COMMUNICATIONS

USB – High Speed 2.0 Host, USB – High Speed 2.0 Client

SOFTWARE APPLICATIONS & 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 thirdparty data and device management products.
- ScanNGo for easy barcode-based enterprisewide 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
Imaging Solutions: VIN scanning, Reusable Container Serial Number Scanning, Remote Deposit Capture, License Plate Verification, Mobile Document Imaging, Shipment Address Verification, etc.
Device Health Monitoring: On-board monitoring of key subsystems including scanning, communications and battery life; remote access requires SmartSystems management option
Web Browsing: Honeywell HTML5 Browser

DATA MANAGEMENT

Skynax® Mobile Communications

INTEGRATED RADIOS

Wireless WAN Options:
UMTS/HSPA+ (Voice and Data): Worldwide except Americas, Australia and New Zealand
UMTS/HSPA Frequencies: 900, 2100 MHz
Max Speeds (Network Dependent): Uplink – 5.76; Mbps Downlink – 14.4 Mbps
GSM/GPRS/EDGE Frequencies: 900, 1800 MHz
Max Speeds (Network Dependent): Uplink – 384; Kbps Downlink – 384 Kbps
Flexible Network (Voice and Data): Americas, Australia and New Zealand (can be switched between the UMTS and CDMA radio networks)
UMTS/HSPA+
UMTS Frequencies: 800, 850, 900, 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/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 on devices without Wireless WAN radio; IEEE 802.11 b/g/n on cellular devices
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 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, drop detection or system suspend.

AUDIO SUPPORT

Supports VoIP / speech recognition / push-to-talk applications; speaker and front panel microphone for handset audio communication and audio recording; wireless Bluetooth headset support.

INTEGRATED SCANNER OPTIONS

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.
EA31 High-Performance Motion-Tolerant 2D Imager: (up to 400 in/s) white LED illumination. 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 OPTION

5-megapixel auto focus color camera with LED flash

KEYPAD OPTIONS

(27 Key) Numeric or (43 Key) QWERTY with backlit keypad

HONEYWELL GLOBAL SERVICES SUPPORT

Contact for Support:

www.hsmcontactsupport.com

Public Knowledgebase Articles:

www.hsmknowledgebase.com

Telephone support available in North America (+1 800 782 4263). Outside of this area, contact your local representative.

ACCESSORIES

Supports all CN50 charging and docking accessories as well as FlexDock modular docking system, vehicle dock, vehicle holder, snap-on adaptors, removable scan handle, DEX adapter and magnetic stripe reader.

REGULATORY APPROVALS & COMPLIANCE

1015CP01, 1015CP01S, 1015CP01U
Safety: cULus Listed, Demko, BSMI
EMC: Class B – FCC/ICES/EN, EAC, CCC
Radio: FCC w/HAC, Industry Canada, CE, NCC, OFCA, IDA, SDPPI, NTC, ETA, SRRC, SIRIM, COFETEL, TELEC, ANATEL, TNZ, RCM, CONATEL, MOC (66 countries total)
Environmental: EU Directives - WEEE; RoHS; Batteries & Accumulators; Packaging & Waste Packaging

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

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

Windows is a trademark or registered trademark in the United States and/or other countries of Microsoft Corporation. Android is a trademark or registered trademark in the United States and/or other countries of Google, Inc. SmartSystems is a trademark or registered trademark in the United States and/or other countries of Honeywell International Inc. Microsoft is a trademark or registered trademark in the United States and/or other countries of Microsoft Corporation. Bluetooth is a trademark or registered trademark in the United States and/or other countries of Bluetooth SIG, Inc. Skynax is a trademark or registered trademark in the United States and/or other countries of Honeywell International Inc. IEEE is a trademark or registered trademark in the United States and/or other countries of the Institute of Electrical and Electronic Engineers, Inc. Cisco is a trademark or registered trademark in the United States and/or other countries of Cisco Systems, Inc.



BEC (Systems Integration) Ltd
Blakewater House, Phoenix Park
Blakewater Road, Blackburn, BB1 5RW
+44 (0) 1254 688 088
info@becsi.co.uk
www.becsi.co.uk

CN51-DS Rev C 02/16
© 2016 Honeywell International Inc.