CN80G

Mobile Computer

The Honeywell CN80G ultra-rugged mobile computer is a no-compromise platform for logistics, warehouse, and field mobility solutions used by United States government agencies, government contractors, and businesses working with federal agencies.



The CN80G ultra-rugged mobile computer provides iron-clad security for U.S. government agencies and contractors, with certifications for FIPS, STIG, and DOD8500.

Equipped with both a sensitive touchscreen and choice of numeric or QWERTY keypads, the CN80G mobile computer bridges the gap between legacy and modern, touch-only applications.

The device features iron-clad security, including certification for FIPS 140-2 Level 1 and DOD8500 compliance with a STIG checklist. Users in healthcare and finance can also take advantage of the high security benchmark set by this device to protect sensitive patient and customer data. The CN80G device is offered with an attachable and dockable common access card reader, or personal identity verifier (PIV), and a full suite of accessories sourced from Trade Agreements Act (TAA) countries to secure the integrity of user data.

Built on the Mobility Edge™ platform, the CN80G device offers an integrated hardware and software platform that enables customers to accelerate provisioning, certification, and deployment across the organization. The only platform that offers guaranteed compatibility through Android™ R, Mobility Edge devices promise a product lifecycle extending across four generations of Android to maximize return on investment and provide a lower overall TCO.

FEATURES AND BENEFITS

The Mobility Edge hardware and software platform and enterprise lifecycle tools provide an integrated, repeatable, scalable approach that accelerates deployment, maximizes performance, and extends the product lifecycle.

Supports four Android generations through Android R, with security updates available after the last Google patch through the Honeywell Sentinel service.

Ultra-rugged construction withstands 10-foot drops to concrete per MIL-STD 810G and 2,000 3.3-foot tumbles. The device is rated IP65/IP67 against dust and water and certified non-incendive (NI) and HERO compliant for hazardous environments.

Meets stringent U.S. government security requirements including FIPS 140-2 Level 1 certification and DOD8500 compliance with a STIG checklist. Batch configuration options without radios, microphones, or cameras and a CAC/PIV reader are available.

Seventh-generation 1D/2D scanning/data imager provides read ranges from 6 inches to 50 feet typically required in today's warehouses. Exceptional motion tolerance minimizes user fatigue and maximizes productivity.

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CN80G Technical Specifications

SYSTEM ARCHITECTURE

Processor: 2.2 GHz Qualcomm® Snapdragon™ 660 octa-core

Operating System: Android 8 Oreo, upgradable through Android R

Memory: 4 GB RAM, 32 GB Flash

Camera: Optional 13-megapixel camera with autofocus and advanced software features for better image quality

Audio: Speaker; optional T3/M3 HAC-compliant, dual microphone system with noise cancellation. Optional PTT support and Bluetooth® wireless headset support

I/O Ports: Custom durable I/O connector with USB 3.0 signals and power input

Sensors: Ambient light sensor, proximity sensor, accelerometer, gyroscope, magnetometer, pressure sensor

Storage Expansion: MicroSD card up to 512 GB (SDXC/SDHC-compliant)

Display: 106.7 mm (4.2 in) FWVGA (854 x 480) bright color LCD with backlight, outdoor viewable, optically bonded to touch panel

Touch Panel: Rugged multi-touch capacitive touch panel, optically bonded for extra durability and better sunlight viewability. Automatic detection and configuration utilizing mutual and self-capacitance modes for water rejection and use with many off-the-shelf gloves

Keypad: 40-key QWERTY keypad or 23-key numeric function keypad, plus dual side scan triggers, volume up/down, camera, power on-screen keypad

Scanning Capabilities: Honeywell N6603ER Imager (1D/2D); Honeywell EX20 Near/Far Imager (1D/2D, 0.15 m to 15.2 m [6 in to 50 ft]); Honeywell Scanning SDKs for Android; DPM-capable model available

Battery: Li-Ion, 3.85 V, 5800 mAh with integrated battery diagnostics

AVAILABLE SOFTWARE

Included CAC reader software

Honeywell Power Tools and Demos

Terminal Emulator

Enterprise Browser

Application Launcher and Lockdown

Provisioning Tools

Honeywell Mobility SDKs for Android, Web, and Xamarin

Support for Third-Party MDM Solutions

TAA-SOURCED ACCESSORIES

Snap-on Common Access Card (CAC)/ Personal Identity Verifier (PIV) reader

Ethernet/charger home bases

Quad battery charger

Holsters and scan handles

Spare battery packs

OTHER ACCESSORIES

An extensive line of CN80 non-TAA accessories

Compatible with third-party Bluetooth CAC readers

WARRANTY

One-year factory warranty

Additional service and support plans available

MECHANICAL

Dimensions (L x W x H):

N6603ER Version: 20.4 cm x 7.8 cm x 3.32 cm (8.03 in x 3.07 in x 1.31 in)

Weight: 500 grams (17.6 oz) with battery pack

EX20 Version: 20.53 cm x 7.8 cm x 3.97 cm (8.08 in x 3.07 in x 1.56 in)

Weight: 550 grams (19.4 oz) with battery pack

ENVIRONMENTAL

Operating Temperature: -20°C to 50°C (-4°F to 122°F)

Storage Temperature: -30°C to 70°C (-22°F to 158°F)

Humidity: 0 to 95% relative humidity (non-condensing)

Drop: 3 m (10 ft) to concrete at room temp per MIL-STD 810G; 1.8 m (6 ft) to concrete at -20°C to 50°C (-4°F to 122°F) temperature range; 1.6 m (5 ft) to concrete down to -30°C (-22°F)

Tumble: Exceeds 2,000 1.0 m (3.3 ft) tumbles per IEC 60068-2-32 specification

ESD: ±15 kV Air and ±8 kV Direct

Environmental Sealing: Independently certified to meet IP67 and IP65 standards for moisture and particle intrusion

WIRELESS CONNECTIVITY

Radio Configuration Options:

WWAN/Wi-Fi/Bluetooth/NFC/Zigbee

Wi-Fi/Bluetooth/NFC/Zigbee

No radios

WWAN: WWAN Radio (ATT/VZW/ SPRINT/TMO/NA/EU) with two micro-SIM slots

- Up to 400 Mbps CAT13 LTE Downlink
- Up to 75 Mbps CAT5 LTE Uplink
  - o FDD-LTE Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 19, 20, 25, 26, 28, 29
  - o TDD-LTE Bands 38, 39, 40, 41
  - o UMTS/HSPA+ (3G) Bands 1, 2, 4, 5, 6, 8, 9, 19
  - o GSM/GPRS/EDGE Quad-Band 850/900/1800/1900 MHz
  - o 1xRTT/EV-DO Bands BC0, BC1, BC10 (B26 BW)

WLAN: IEEE 802.11 a/b/g/n/ac; Wi-Fi certified 2x2 MIMO support

Additional WLAN Features: 802.11 d/e/h/i/k/r/w (mc with Android P)

WLAN Security: FIPS 140-2 Level 1, OPEN, WEP, WPA/WPA2 (Personal and Enterprise)

Supported EAP: TLS, PEAP, TTLS, PWD, LEAP CCX Version 4 certified

Bluetooth: Class 1.5 V5.0 Bluetooth and BLE

Bluetooth Profiles: HFP, PBAP, A2DP, AVRCP, OPP, SPP, GATT

NFC: Integrated Near Field Communication

Zigbee: Integrated Zigbee 3.0 radio for IoT compatibility

VoIP: Supported

VPN: IPSec V4/L2TP, PPTP

Push to Talk (PTT): Supported

GPS Supported Protocols: Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo, and BeiDou

CN80G Technical Specifications

GOVERNMENT SECURITY AND ENCRYPTION

Data in Motion: FIPS 140-2 Level 1

Data at Rest: FIPS 140-2 Level 1

STIG (Security Technical Implementation Guide) (19Q3)

DOD8500 (DOD information assurance policy guidance) (19Q3)

NON-INCENDIVE

Suitable for use in Division 2 locations

Safety: cULus Listing – UL 121201 and CSA C22.2 No. 213-17

Gases: Class I – Groups A, B, C, D

Dusts: Class II – Groups F, G

Fibers and Flyings: Class III

T-Code T6

Ambient Temperature Range: -20°C to 50°C (-4°F to 122°F)

HERO tested





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

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