

# 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.**

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.



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

CN80G has received a prestigious STIG (Security Technical Implementation Guide) designation from the Defense Information Systems Agency (DISA) for its security capabilities. This recognition from DISA and the U.S. Department of Defense acknowledges the advanced security configurations the CN80 encompasses, ensuring your data is kept safe and secure throughout the life of the device.

## 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) 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.

**Honeywell**

# CN80G Technical Specifications

## SYSTEM ARCHITECTURE

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

**Operating System:** Each Android version guaranteed from Honeywell Government version of Android Pie, in GMS and non-GMS version to at least 11/R, committed support for Android 12 and 13 pending feasibility

**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

Apriva Guard for secure access and authentication

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

## For more information

[sps.honeywell.com](http://sps.honeywell.com)

[www.android.com/AER](http://www.android.com/AER)

## Honeywell Safety and Productivity Solutions

300 S Tryon St Suite 500

Charlotte, NC 28202

800-582-4263

[www.honeywell.com](http://www.honeywell.com)

## 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:**

- FDD-LTE Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 19, 20, 25, 26, 28, 29
- TDD-LTE Bands 38, 39, 40, 41
- UMTS/HSPA+ (3G) Bands 1, 2, 4, 5, 6, 8, 9, 19
- GSM/GPRS/EDGE Quad-Band 850/900/1800/1900 MHz
- 1xRTT/EV-DO Bands BCO, 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

**Honeywell Smart Talk**

**GPS Supported Protocols:** Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo, and BeiDou. GPS on WWAN models only

## 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

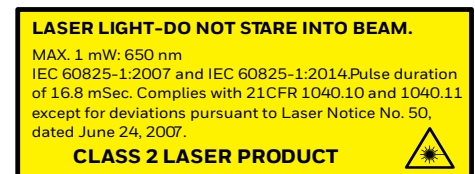
**Gases:** Class I – Groups A, B, C, D

**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)



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 symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies).

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