Built on the Honeywell Mobility Edge platform and Android, the ultra-rugged CN80 mobile computer combines touchscreen and keypad data input, real-time connectivity, and advanced data capture for industry-leading investment protection.

Fortunately, there’s one ultra-rugged mobile computer that helps bridge the gap. The CN80 mobile computer offers both a large touchscreen and a choice of numeric or QWERTY keypad, allowing users to pick the best input method for their environment today, and also be ready for the touch-centric applications of the future.

Built on the Mobility Edge™ platform, the CN80 mobile computer offers an integrated, repeatable, and scalable approach based on a common hardware and software platform – unleashing customers from constraints faced today around integration and inflexible technologies without sacrificing enterprise security, reliability, performance, or management features.

Juggling multiple devices across the enterprise introduces time- and cost-intensive complexities for Enterprise IT to manage and maintain. The Mobility Edge platform enables customers to accelerate provisioning, certification, and deployment across the enterprise. The CN80 mobile computer offers an extended product lifecycle across five generations of Android to maximize return on customer investment and provide a lower overall TCO. It’s validated by Android Enterprise Recommended, a Google-led initiative that helps businesses confidently select, deploy, and manage the Android devices and services best suited to their enterprise needs.

The ultra-rugged CN80 mobile computer features a fast processor, advanced network connectivity, and enhanced 1D/2D scanning plus extended battery life lasting twice as long as previous generations to keep workers connected and productive throughout multiple shifts. The large, vivid, 106.7 mm (4.2 in) touchscreen display can be read easily indoors and out and used with finger, glove, or stylus – making it ideal for warehouse, cold storage, field mobility, and other challenging environments.

FEATURES AND BENEFITS

The Mobility Edge hardware platform and enterprise lifecycle tools drive an integrated, repeatable, scalable approach for accelerated and secure development, deployment, performance management, and lifecycle management.

The CN80 device provides future-proof investment protection with support for five Android generations, starting with Android 8 (O). Security updates are also available for up to two years past the last Google patch through Honeywell Sentinel.

The large touchscreen with a 23-key numeric or 40-key QWERTY keypad supports both legacy key-centric applications and newer touch applications. Keypads allow input in extremely harsh environments and optimize efficiency in all environments.

Ultra-rugged construction withstands 3.0 m (10 ft) drops to concrete and 2,000 1.0 m (3.3 ft) tumbles. IP65/IP67 ratings against dust/water spray. Cold storage and non-incendive options support operation where other products can’t be used.

Enhanced 1D/2D scanning/data capture with read ranges of 0.15 m to 15.2 m (6 in to 50 ft) typically required in today’s warehouses. Optional scan handle for flexibility to switch between handheld and pistol grip operations.
CN80 Technical Specifications

SYSTEM ARCHITECTURE
Processor: 2.2 GHz Qualcomm® Snapdragon™ 660 octa-core
Operating System: Android 8, upgradable through Android R
Memory: 3 GB/4 GB RAM, 32 GB Flash
Camera: 13.0-megapixel color camera with autofocus and advanced software features for better image quality
Audio: Speaker, T3/M3 HAC-compliant, dual microphone support with noise cancellation. 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: User-accessible 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-off, and better image quality
Imager (1D/2D); Honeywell EX20 Near/Far Scanning Capabilities: screen keypad
Scanning Capabilities: Honeywell N6603ER Image (1D/2D), Honeywell EX20 Near/Far Image (1D/2D, 0.15 m to 15.2 m [6 in to 50 ft]), Honeywell Scanning SDKs for Android
Battery: Li-Ion, 3.85 V, 5800 mAh with integrated battery diagnostics

SOFTWARE
Honeywell Power Tools and Demos
Terminal Emulator
Application Launcher and Lockdown
Provisioning Tools
Honeywell Mobility SDKs for Android, Web, and Xamarin
Support for Third-Party MDM Solutions

WARRANTY
One-year factory warranty

ACCESSORIES
One-bay and four-bay desktop charging/com cradles
Vehicle cradles and holders
Wireless charging vehicle cradle
Snap-on communication/charging adapters
Removable scan handle, various carrying devices

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:
Standard Temp Unit: -20°C to 50°C (-4°F to 122°F)
Cold Storage Unit: -30°C to 50°C (-22°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
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 CATS 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, BCL, 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/l/r/w (mc with Android P)
WLAN Security: OPEN, WEP, WPA, WPA2 (Personal and Enterprise)
Supported EAP: TLS, PEAP, TTLS, PWD, FAST, LEAP CCX Version 4 certified
Bluetooth: Class 1.5 V5.0 Bluetooth and BLE
Bluetooth Profiles: HFP, PBAP, A2DP, AVRCP, OPP, SPP, GAP
NFC: Integrated Near Field Communication
Zigbee: Integrated Zigbee 3.0 radio for IoT compatibility

For more information
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