

Dolphin CN80 Technical Specifications

SYSTEM ARCHITECTURE

Processor: 2.2 GHz Qualcomm Snapdragon™ 660 octa-core

Operating System: Android 7.1 Nougat, upgradable through Android Q

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-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

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

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

ACCESSORIES

One-bay and four-bay desktop charging/com cradles

Vehicle cradles and holders

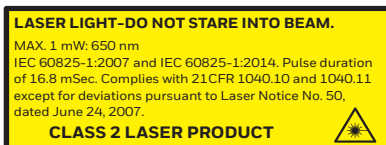
Wireless charging vehicle cradle

Snap-on communication/charging adapters

Removable scan handle, various carrying devices

WARRANTY

One-year factory warranty



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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: 2.4 m (8 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 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 BCO, BC1, BC10 (B26 BW)

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

Additional WLAN Features: 802.11r (802.11k/mc – via future release)

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, 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

NON-INCENDIVE VERSION

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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