Honeywell
THE POWER OF CONNECTED | Mobile Computers

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Dolphin CN80

Mobile Computer

Logistics, warehouse, and field mobility organizations alike are transitioning from devices built on Windows® to devices built on Android™ and from keypad-centric devices to full touchscreens. But many legacy applications have not yet been updated for this new touch-centric world and for many use cases, keys remain essential for data capture. Fortunately, there's one ultra-rugged mobile computer that helps bridge the gap. The Dolphin™ CN80 device 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 Honeywell Mobility Edge™ platform, the Dolphin CN80 device 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 Dolphin CN80 device offers an extended product lifecycle across four generations of Android, from Android Nougat to Android Q, to maximize return on customer investment and provide a lower overall TCO. The device's advanced enterprise lifecycle tools also simplify frequently repeated tasks such as software updates, training new employees, and managing spare pools.

The ultra-rugged Dolphin 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.



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

FEATURES & 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 Dolphin CN80 device provides future-proof investment protection with support for four Android generations, starting with Android 7.1 (N). Security updates are also available for up to two years past the last Google patch via the Honeywell Sentinel service plan.

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 multiple 2.4 m (8 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.

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

LASER LIGHT-DO NOT STARE INTO BEAM.
MAX. 1 mW: 650 nm
IEC 60825-1:2007 and IEC 60825-1:2014. Pulse duration of 16.8 mSec. Complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.
CLASS 2 LASER PRODUCT

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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 BC0, 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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