Dolphin 7800

Enterprise Digital Assistant (EDA)

For demanding mobile workforce applications that require multiple tasks be completed in a limited amount of time, Honeywell's Dolphin® 7800 rugged enterprise digital assistant (EDA) delivers multi-purpose computing, communication, and data collection at desktop-like speed, empowering workers to get the job done, regardless of location.

Mobile workers need compact, lightweight devices that are designed for durability and usability. With a magnesium inner chassis and engineering-grade plastic housings, the Dolphin 7800 provides the durability needed to withstand daily use in challenging environments, without the extra bulk that often accompanies industrial-grade mobile computers.

A large, high-resolution, outdoor- and off-axis-viewable screen maximizes productivity and ensures easy viewing of data in virtually any lighting condition. Multiple keypad options allows enterprises to choose the layout that best suits the needs of their mobile workforce. Adaptus® Imaging Technology 6.0 enables fast scanning of linear and 2D bar codes in various lighting conditions, while an integrated color camera enables seamless image and video capture.

The Dolphin 7800 also incorporates the latest in wireless technology, including a software-definable radio option that allows on-the-fly switching between GSM and CDMA networks, leading to continuous data coverage and lower device provisioning and deployment costs. Additionally, built-in Wi-Fi provides access to critical data using the new, lightning fast 802.11n standard, as well as legacy a/b/g protocols.

When an oversized industrial-grade mobile computer provides more than what is needed, Honeywell's Dolphin 7800 rugged EDA provides a reliable, affordably-priced alternative that offers versatile data collection and real-time communication for mobile workers in a compact and lightweight design.

Features

- **Lightweight and Compact Design:** Reduces user fatigue by offering all of the functionality needed in an easy-to-carry form factor

- **Rugged and Reliable:** Durable construction and sealing deliver reliable operation and maximize worker uptime

- **Superior 3.5″ Outdoor-Viewable VGA Display:** Allows mobile workers to seamlessly interact with data in virtually any lighting condition

- **Fast and Reliable Wireless Connectivity:** Delivers full wireless coverage for applications inside and outside of the four walls, allowing real-time access to critical data

- **Powerful Processor and Network Connections:** Delivers fast business transactions, allowing workers to complete multiple tasks quickly

- **Remote MasterMind® Ready:** Reduces total cost of ownership by providing a turnkey remote device management solution that easily manages and tracks usage of installed devices

- **Service Made Simple™ Service Plans:** Offers comprehensive, hassle-free protection on the device investment for up to three years after purchase, lowering the total cost of ownership

Dolphin 7800 Technical Specifications

Mechanical

Dimensions	Standard Battery: 157 mm x 76 mm x 28 mm (6.2˝ x 3.0˝ x 1.1˝) Extended Battery: 157 mm x 76 mm x 33 mm (6.2˝ x 3.0˝ x 1.3˝)
Weight	Standard Battery: 324g (11.4 oz); Extended Battery: 380 g (13.4 oz)

Environmental

Operating Temperature	-10° to 50°C (14° to 122°F)
Storage Temperature	-20° to 70°C (-13° to 158°F)
Humidity	0 to 95% relative humidity (non-condensing)
Drop	Designed to withstand 5' (1.5m) drops to concrete
Tumble	Designed to withstand up to 1,600 (1m) tumbles per IEC 60068-2-32 specification
ESD	±15KV Air and ±8KV Contact
Environmental Sealing	Independently certified to meet IP64 standards for moisture and particle intrusion

System Architecture

Processor	800MHz TI OMAP
Operating System	Microsoft® Windows® Embedded Handheld 6.5
Memory	256 MB RAM X 512 MB Flash
Display	8.9 cm (3.5˝) VGA color, high resolution, full axis viewing, sunlight readable display
Touch Panel	Industrial touch panel with 4 wire resistive touch and support for finger touch and stylus
Keypad	Standard Keyboards: 30-key numeric and 46-key QWERTY
Audio	Speaker, HAC receiver, microphone, vibrator, echo cancellation, Bluetooth® headset support
I/O Ports	USB 2.0
Camera	3.0 mega pixel camera; autofocus; flash LED
Sensors	3-Axis/2g Accelerometer
Storage Expansion	User accessible microSD slot (SDHC compatible). Please check with your Honeywell representative for available qualified card options
Battery	Standard: Li-ion 3.7 V, 2300 mAh; Extended: Li-ion 3.7 V, 4000 mAh
Hours of Operation	Standard/Extended: 6.5 hours/12 hours (decoding and sending data over WLAN every 9 seconds) Extended: 8.5 hours (decoding and sending data over WWAN every 15 seconds, GPS continuously receiving data)
Decode Options	Supports the following Adaptus 6.0 imaging scan engines: N5603-SR, N5603-ER
Decode Capabilities	Decodes standard 1D and 2D bar code symbologies
Development Environment	Honeywell SDK for Microsoft Windows Embedded Handheld 6.5
HSM Application Software	Honeywell Powertools® and Demos, Remote MasterMind™ for Mobility remote device management
Warranty	1 year factory warranty

Wireless Connectivity

WWAN	GSM (Voice and Data): 3.9G–HSPA+ (800/850/1900/1700/2100 MHz), GSM/GPRS/EDGE (850/900/1800/1900 MHz) CDMA (Voice and Data): EVDO Rev A - 1xRTT/EVDO (800/1900 MHz) Software definable Gobi 3000 (Data only): 3.9G – HSPA+/UMTS (800/850/900/1700/1900/2100MHz), GSM/GPRS/EDGE (850/900/1800/1900MHz) and EVDO Rev A - 1xRTT/EVDO (800/1900 MHz)
WLAN	IEEE 802.11 a/b/g/n; Wi-Fi™ certified
WLAN Security	WEP, 802.1x, LEAP, TKIP, MD5, EAP-TLS, EAP-TTLS, WPA-PSK, WPA v2.0, PEAP, WAPI, CCXv4
WPAN	2.4 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth® v2.1 + EDR; Class II: 10m (33') line of sight
GPS	Integrated autonomous GPS receiver with built-in Assisted-GPS (A-GPS) services and software utilities

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For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance
For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies
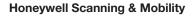
LASER LIGHT. DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
1.0 mW MAX OUTPUT: 650nM
IEC 60825-1 Ed 2 (2007). pulse duration
of 15.5mSec. Complies with 21 CFR 1040.10
and 1040.11 except for deviations pursuant
to Laser Notice No. 50, dated June 24, 2007.

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