

# MX9HL

## Mobile Computer

What makes the MX9HL an ultra-rugged hand-held? Rated for Class 1, Division 2, Groups A, B, C, and D, the MX9HL boasts a host of features including an IP67 rating, and the ability to withstand multiple 6 foot drops to concrete and 2,000 1m tumbles. The MX9HL ultra rugged hand-held is ready for the most rugged environments imaginable.

The MX9HL ships with a PXA 320 processor and industry leading Microsoft® Windows® CE 5.0 Professional or Microsoft® Windows® Mobile 6.5 operating system. Options include a WWAN radio with GPS receivers, a choice of backlit keyboards, built-in heaters and more. Data collection in any environment is no challenge for the MX9HL, one of the most advanced ultra rugged hand-helds in the industry.

The MX9HL is perfect for use in chemical processing facilities, aircraft refueling applications, outdoor field service activities, and any harsh environment where data collection is needed. Don't let its rugged exterior fool you - the MX9HL is intelligent, flexible, and dependable.



## Features

- **Hazardous Location Rated:** Certified for Class I, Division 2, Group A, B, C & D hazardous locations, ensuring worker safety
- **Ultra-Rugged:** Lowers total cost of ownership and reduces downtime with an IP67-rated design that has the ability to withstand multiple 6' drops to concrete and 2,000 1m tumbles
- **Anywhere Wireless Connectivity:** Supports real-time connectivity to critical information with 2G WWAN radio, GPS, and WLAN

# MX9HL Technical Specifications

## Mechanical/Environmental

<b>Dimensions</b>	9.9" x 3.9" x 2.7" (251mm x 99mm x 69mm)
<b>Weight</b>	2.1 lbs. (34 oz.) with scanner, 802.11, Bluetooth and handstrap
<b>Operating Temperature</b>	-4° to +122°F (-20° to +50°C)
<b>Storage Temperature</b>	-4° to +158°F (-20° to +70°C)
<b>Humidity</b>	5 to 95% non-condensing
<b>Drop</b>	Withstands multiple 6' (1.8 m) drops to concrete
<b>Tumble</b>	2,000 (1m) tumbles per IEC 60068-2-32 specification
<b>Environmental Sealing</b>	Independently certified to meet IP67 standards for moisture and particle resistance
<b>Hazardous Locations</b>	UL: Class I Division 2, Groups A, B, C, D with NRTL mark ISA 12.12.01, CSA C22.2#213
<b>ESD</b>	15KV Air discharge, 8KV contact discharge

## System Architecture

<b>Processor</b>	PXA320, 800MHz
<b>Operating System</b>	Microsoft® Windows® CE 5.0 Professional or Microsoft® Windows® Mobile 6.5
<b>Memory</b>	128MB SDRAM, 128MB Flash; 1GB or 4GB SD-card expansion
<b>Display</b>	3.7" (94 mm) QVGA (240x320), transfective
<b>Touch Panel</b>	Resistive touchscreen with stylus
<b>Keypad</b>	Backlit 62-key alphanumeric, 38-key numeric-alpha
<b>Audio</b>	Microphone, Speaker with adjustable volume control
<b>I/O Ports</b>	RS-232/USB 2.0 host and client/audio out/Ethernet/charging connector
<b>Battery</b>	Li-ion, 11.1V, 2,400 mAh
<b>Battery Life</b>	12 hour full-shift battery life (scanning and sending data over WLAN and Bluetooth every 10 seconds)
<b>Imager/Scanner</b>	Near-Far Range Laser (Lorax), Standard Ranger Laser, 2D imager
<b>Decode Capabilities</b>	Reads standard 1D and 2D symbologies
<b>Warranty</b>	1 year factory warranty
<b>Service Plans</b>	Optional three-and five-year service programs offer worry-free mobile computing

## Wireless Connectivity

<b>WWAN</b>	GSM, GPRS, Edge
<b>WLAN</b>	802.11 b/g, 802.11 a/b/g
<b>WLAN Security</b>	Authentication: Support for a full range of 802.1X (EAP) types, including EAP-TLS, PEAP-MSCHAPv2, PEAP-GTC, LEAP, and EAP-FAST Encryption: Support for Static, pre-shared, and dynamic encryption keys, 40-bit and 128-bit keys, WEP, WPA (TKIP), and WPA2 (AES) Encryption Methods
<b>WLAN Antennas</b>	Internal diversity antenna
<b>WPAN</b>	Bluetooth® 2.0 + EDR, class II
<b>GPS</b>	GPS receiver

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