



UNIVERGE® MH150 and MH160 WLAN handsets

Advanced enterprise features at your fingertips

At a Glance

- A UNIVERGE Assured Mobility Solution
- Cost reduction through integration
- Reliable and secure communications
- Integration with 3rd party applications

Do you have a Wireless LAN and is mobile communications of key importance? NEC's MH150 and MH160 handsets add voice communications and messaging. And for mobile control of applications or workflow process participation, these handsets help out with messaging and alarm handling capabilities. They also allow for seamless integration with NEC voice platforms and virtually any WLAN.

Cost reduction through integration

Unified management of these devices and their use of the same converged enterprise voice and data infrastructure reduce your capitalized costs. Their integration with a broad range of enterprise applications and networks enables them to deliver the richest possible functionality while significantly improving employee accessibility, productivity and responsiveness.

Reliable and secure communications

The NEC MH150 and MH160 WLAN handsets extend NEC's tradition of offering the industry's highest performing handsets for the enterprise. They use advanced technologies including 802.11a/b/g (WiFi) network support, extended battery life and a high-resolution display to take WiFi telephony to a high level.

Empowered by Innovation

NEC

The Quality Of Service is well taken care of by either embedded WLAN services like Cisco CCXv4 or by a dedicated Spectralink Voice Protocol (SVP) server. This SVP server controls packet timing, call admission control and battery saving. One SVP server can handle 80 simultaneous calls. Up to 16 SVP servers can be stacked allowing for more than 800 simultaneous calls

Integration with third-party applications

Communication between the MH150 and MH160 Mobile Handsets and third-party applications is enabled via the

Open Application Interface (OAI) Gateway. The OAI's protocol enables third-party applications to write to the handset's display, read user key presses and perform basic call control such as: going off hook and dialling digits. This unique two-way functionality enables mobile users to rapidly respond to non-voice messages with systems such as nurse call and CRM tools, thereby reducing decision-making time and increasing productivity throughout the workplace.

The OAI Gateway is a separate hardware device connected to the IP network.

Features

MH150 and MH160 Features	
• Seamless integration with NEC's UNIVERGE Telephony Platforms	• Personal directory, call history and speed-dial lists
• 802.11a/b/g (Wi-Fi) compatible	• Resistant to dust, shock and liquid damage
• NEC SIP extensions	• Five user-selectable profiles
• Text messaging support via OAI	• Icon-based status indicators
• Simple management and configuration via handset administration software	• Push to talk mode with 24 channels plus one priority override (MH160 only)
• Audible and vibrating ringers	• Softkey feature access
• Integrated speakerphone	• Standard and extended-life battery options
• Lightweight, ergonomic design	• Single, dual and quad charging options
• Range of accessories	• Belt clip, swivel belt clip and carrying case

Specifications

MH150 and MH160 Specifications	
Wireless Interfaces:	2.4 - 2.4835 GHz (802.11b, 802.11g) and 5.15 - 5.825 GHz (802.11a varies by country)
Voice Codec:	G.711, G.729a, Payload Cycle: 20 ms, 30 ms, 40 ms
Control Protocols:	SIP (RFC3261) + NEC SIP Extension
Security (Authorization and Encryption):	WPA and WPA2 with Pre-Shared Key (PSK)/Standard WEP 40-bit and 128-bit
MH150 Display:	LCD, Monochrome (graphical type) 102 x 65 pixels
MH160 Display:	LCD, Monochrome (graphical type) 128 x 96 backlit display with icons and line- status indicators
Language:	English
Ringers:	Melody: 3 patterns, Sound: 3 patterns, 5 level tones
Transmit Power:	100 mW max (adjustable), < 10 mW average
Wireless QoS:	SVP server or embedded QoS (with SUP for QoS)
Dimensions MH150:	13.7 x 5.1 x 2.3 cm
Dimensions MH160:	14.5 x 5.6 x 2.3 cm
Weight:	110 – 136 gram (depending on handset and battery)
Colour:	Back: dark gray, Front: light gray and NEC blue on upper front
Battery:	Lithium ion battery
Talk Time and Standby Time:	Standard: (4 hrs/80 hrs), Extended (6 hrs/120 hrs), Ultra-extended (8 hrs/160 hrs)
Headset Jack:	2.5 mm
Environment:	Temperature: 0° to 40°C, Humidity: 20 to 90%
EMC:	EN 301 489-1 v.1.8.1 EN 301 489-17 v.1.2.1
EMF:	EN 50360;2001
RF:	EN 300 328 v.1.7.1 EN 301 893 v.1.4.1
Safety:	EN 60950-1:2001 + A11:2004

About NEC Corporation: NEC Corporation (NASDAQ: NIPNY) is one of the world's leading providers of Internet, broadband network and enterprise business solutions dedicated to meeting the specialized needs of its diverse and global base of customers. NEC delivers tailored solutions in the key fields of computer, networking and electron devices, by integrating its technical strengths in IT and Networks, and by providing advanced semiconductor solutions through NEC Electronics Corporation. The NEC Group employs more than 150,000 people worldwide. For additional information, please visit the NEC home page at: <http://www.nec.com>

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