# Mako 6500-M

Fast, flexible and secure Internet access.

## Engineered to Perform

The 6500-M continues Mako's legacy of design innovation, building on the award-winning 6500 platform and incorporating new features that deliver fast, flexible and secure networks for businesses with small sites. With a sealed tamper-evident unit, no moving parts and high heat tolerance, the 6500-M adds 4G LTE, 1Gbps transfer speed technology, more wireless channels and four LAN ports.

### PCI DSS CERTIFIED

The entire Mako System–including the 6500-M, our wireless, Central Management System and software–is PCI DSS certified from end-to-end, providing peace of mind and security for businesses accepting credit cards. Retailers can even use Mako's secure wireless for tablet-based POS systems.

### CENTRALIZED LOGGING/REPORTING

Using a patented communications protocol, Mako 6500-M appliances securely send traffic information to the CMS every few minutes. This data is used to generate easy-to-understand graphical reports about the network, including data use by site, user and timeframe, intrusion attempts and Internet traffic records.

### FAST LTE FAILOVER

If enabled, the Mako 6500-M will automatically switch over to use LTE if the network connection drops, offering businesses continuity in the case of unexpected interruptions. This non-stop network feature provides high availability at a business-friendly cost.

Where fixed-line connections are impractical, LTE can also be set as the primary connection method.

### EASY VIRTUAL PRIVATE NETWORKS

Remote locations connected by Mako appliances can be linked in seconds by three easy mouse clicks in the CMS, all without requiring static IP addresses. Each Mako 6500-M can simultaneously link up to 30 external VPNs.

### SIMPLE TROUBLESHOOTING

A color-coded LED panel on the Mako 6500-M provides Internet and network connection information at a glance. For non-technical users, this makes it easy to quickly diagnose network issues.

### FLEXIBLE CONNECTION OPTIONS

Mako 6500-M appliances provide WAN connectivity via Ethernet or VDSL/ADSL2+ at up to 1Gbit transfer speeds, and a fast and multi-carrier capable LTE connection. However your business connects to the Internet, Mako can protect it.

### EMBEDDED WIRELESS

The Mako 6500-M features single or dual-band wireless for customer hotspots or general business use, supporting up to four wireless networks in one appliance.

### QUICK AND EASY TO DEPLOY

Like all Mako appliances, the 6500-M automatically receives configuration information from the Mako CMS via the cloud, so sites are up and running quickly and easily.

### 24/7 TECHNICAL ASSISTANCE

Our friendly helpdesk staff are available around the clock to help keep your business running.

# Technical Specifications

## HARDWARE

| | |
|---|---|
| LAN Interface | 4 x Ethernet RJ45 10/100/1000 Mbps ports. Auto crossover |
| WAN Interface | Ethernet: 1 x RJ45 10/100/1000 Mbps port. Auto crossover<br>DSL: 1 x RJ11 ITU G.992 port, ADSL2+, VDSL, half or full duplex, supporting 1GBit/s transfer.<br>Dial-up: DSL port |
| Power Supply | External 100 or 240 V AC Input (50 or 60 Hz). 12 V DC output. |
| USB Port | For support functions<br>(i.e. manual configuration). |
| Chassis Dimension | Length: 8.58 inches (218mmn)<br>Width: 8.58 inches (218mm)<br>Height: 1.57 inches (40mm) |
| Operating Temperature | 41° F to 104° F<br>5° C to 40° C |
| Humidity | 10 to 90 relative, non-condensing |
| Hardware VPN Encryption | Supported |
| Power Consumption | 10W - Typical |

## COMPLIANCE

| | |
|---|---|
| Network Protocols | PPP over Ethernet (RFC 2516 PPPoE) |
| Electromagnetic Compliance | EN55022 - CSPIR 22 Class B (EMC)<br>EN55024 - CSPIR 24 (Immunity)<br>FCC Part 15 Class B |
| Wireless Compliance | EN 300328 |
| Safety Standards | CB, IEC 60950, EN 60950 &<br>AS/NZS 60950 |
| NZ Telecoms | PTC 257 (3G) |
| Environmental | Lead-free and RoHS compliant |
| Firewall | Stateful Packet Inspection |

## VPNs

| | |
|---|---|
| Total: 30 | 20 IPSec (Rated maximum) 10 PPTP (Rated maximum) |

## CELLULAR

| Protocols USA | |
|---|---|
| LTE | 1900(B2), AWS(B4), 850(B5), 700(B13), 700(B17), 1900(B25) |
| Modem | MC7355 |
| **Protocols AUS/NZL/GBR** | |
| LTE | 2100(B1), 1800(B3), 2600(B7), 900(B8), 800(B20) |
| Modem | MC7304 |

## WIRELESS

| | |
|---|---|
| Channels | 2.4 / 5 GHz; Four guest networks supported |
| Supported Standards | 802.11 b/g/n |
| Bandwidth | Up to 300 Mbps per channel |
| Security | WPA2TM Personal* |
| Frequencies | 802.11b/g: 2.412 GHz - 2.472 GHz<br>802.11n HT20: 2.412 GHz - 2.472 GHz<br>802.11n HT40: 2.422 GHz - 2.462 GHz |
| Other | Integrated access point scanning<br>Wireless Multimedia (WMM)<br>QoS |
| Output Power | < 100 mW (e.i.r.p.) |

## MODEL VARIATIONS

| | |
|---|---|
| 6500-MW1 | Single-band wireless (802.11 b/g) |
| 6500-MW2 | Dual-band wireless (802.11 b/g/n) |
| 6500-MW1/LTE | Single-band wireless (802.11 b/g) + LTE Cellular WAN |
| 6500-MW2/LTE | Dual-band wireless (802.11 b/g/n) + LTE Cellular WAN |

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