



Mako 6500-M

Fast, flexible and secure Internet access.

At a Glance

ADSL, ADSL 2+, VDSL, Ethernet, LTE
Four x 1 Gbit LANs; Four Wireless SSIDs
PCI DSS Certified

The 6500-M delivers fast, flexible and secure SD-WAN and local area networking for businesses and is a great fit for companies with multiple small sites. With a sealed, tamper-evident case, no moving parts and high heat tolerance, the 6500-M includes onboard LTE, 1 Gbps transfer speeds, built-in wi-fi and four physically segmented LAN ports.

Created with the Payment Card Industry Data Security Standard (PCI DSS) as a guiding principle, the Mako 6500-M allows businesses to segment payment networks quickly and easily, apply strict security controls, and lock down internal systems to PCI DSS standards.

PCI DSS CERTIFIED

The entire Mako System—including the 6500-M, the Central Management System and all of our software—is PCI DSS certified from end-to-end, providing peace of mind and security for businesses accepting credit cards.

CENTRALIZED LOGGING/REPORTING

Using a patented communications protocol, Mako 6500-M appliances securely send traffic information to the Mako Central Management System regularly. 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 fixed-line network connection drops, protecting businesses in 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. Mako's LTE connection works with all U.S. carriers and in most parts of the world.

EASY VIRTUAL PRIVATE NETWORKS

Remote locations connected by Mako appliances and VPN concentrators can be linked in seconds by three easy mouse clicks via the CMS, all without requiring static IP addresses. Each Mako 6500-M can simultaneously link up to 20 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. When technical support is needed, helpdesk technicians use the CMS to view and control the appliance status, connections and configuration, making it easy to troubleshoot and resolve issues without the need for site visits.

FLEXIBLE CONNECTION OPTIONS

Mako 6500-M appliances provide WAN connectivity via Gigabit Ethernet and a fast and multi-carrier capable LTE connection. However your business connects to the Internet, Mako protects it and helps make the connection more reliable.

EMBEDDED WIRELESS

The Mako 6500-M features in-built wireless for customer hotspots or general business use and supports to four wireless networks per appliance. Retailers can even use Mako's secure wireless for tablet-based POS systems or pair it with our wireless APs to extend coverage to larger footprints if needed.

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.

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 DSL: 1 x RJ11 ITU G.992 port, ADSL2+, VDSL, half or full duplex, supporting 1 Gbps transfer. 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 (i.e. manual configuration).
Chassis Dimension	8.58 x 8.58 x 1.57 in 218 x 218 x 40 mm (L x W x H)
Operating Temperature	41 °F to 104 °F 5 °C to 40 °C
Humidity	10 % to 90 % relative, non-condensing
Hardware VPN Encryption	Supported
Power Consumption	10 W - Typical

Compliance

Network Protocols	PPP over Ethernet (RFC 2516 PPPoE)
Electromagnetic Compliance	EN55022 - CSPIR 22 Class B (EMC) EN55024 - CSPIR 24 (Immunity) FCC Part 15 Class B
Wireless Compliance	EN 300328
Safety Standards	CB, IEC 60950, EN 60950 & 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)
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Cellular Protocols

USA	
LTE	1900(B2), AWS(B4), 850(B5), 700(B13), 700(B17), 1900(B25)
Modem	MC7355
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 802.11n HT20: 2.412 GHz - 2.472 GHz 802.11n HT40: 2.422 GHz - 2.462 GHz
Other	Integrated access point scanning Wireless Multimedia (WMM) 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

Contact Mako Networks

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