



Mako 6500-A2 Series

Secure Internet access, control and reporting

An award-winning network appliance.

The Mako 6500-A2 is an award-winning network security appliance for small sites and businesses that access the Internet using an ADSL connection. Some models of the 6500-A2 also feature an additional 3G connection, allowing businesses the option to connect to the Internet using a wireless signal if ADSL is not available. The Mako 6500-A2 incorporates a powerful firewall independently certified by ICSA Labs for network security, complemented by a host of technologies designed to help protect businesses that process, store or transmit credit card data.

Complete Security

Mako 6500 appliances employ a range of industry-leading security technologies, such as a stateful inspection firewall, port scanning protection, worm detection, AES 128-bit encryption for Virtual Private Networks (VPNs), and support for Point-to-Point Tunneling Protocol (PPTP) remote network access.

Centralized Logging/Reporting

Mako 6500-A2 appliances securely send traffic information back to the Mako Central Management System (CMS) every few minutes. This data is used to generate easy-to-understand graphical reports about network usage, including data use by site, user and timeframe, real-time reporting of intrusion attempts, and records of Internet traffic. Based on this information, the CMS can also send proactive alerts regarding data usage, device temperature, worm detection, and more.

3G Failover

As an additional connection option, the Mako 6500-A2 is available with a 3G wireless connection, capable of being used as a 'failover' option in case the primary ADSL connection goes down. The Mako 6500-A2/3G will automatically switch over to use mobile data if the ADSL connection drops, offering businesses continuity in the case of network interruptions.

In areas where ADSL is not available, or in remote locations, 3G can also be set as the primary connection method.

Easy Setup Virtual Private Networks

External networks connected by Mako appliances can be linked to the Mako 6500-A2 in seconds by three easy mouse clicks in the CMS, without requiring static IP addresses. Each 6500-A2 can simultaneously link up to 20 external VPNs.

The Mako 6500-A2 can also connect to third-party equipment and firewalls.

Embedded Wi-Fi

Mako 6500 appliances include Wi-Fi for customer hotspots or general business use. Using the Mako CMS, administrators can set limits and parameters around guest access, or protect against unauthorized wireless connections.

Integrated Router

Mako 6500-A2 units incorporate a fully featured ADSL router to provide access to the Internet at speeds up to 25Mb per second.

PCI DSS Certification

Any business that processes, stores or transmits credit card data must meet security requirements set up by the credit card companies to help reduce fraud, known as the Payment Card Industry Data Security Standards (PCI DSS).

The Mako 6500-A2 is specially built with the PCI DSS in mind, allowing businesses to quickly and easily lock down computer and payment networks.

Easy to Deploy

Like all Mako appliances, the 6500-A2 automatically receives configuration information from the CMS via the cloud, so there's little to set up besides plugging in power and network cables.

Simple Troubleshooting

A color-coded LED panel on the Mako 6500 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 appliance status, connections and configuration, making it easy to troubleshoot and resolve issues without the need for site visits.

Hardware Specification

LAN Interface	2 x Ethernet RJ45 10/100 Mbps ports. Auto crossover.
WAN Interface	1 x RJ11 ITU G.992 ADSL 1/2/2+ 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	Length: 8.58 inches (218mm) Width: 8.58 inches (218mm) Height: 1.57 inches (40mm)
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	10W - Typical

Wireless Specification

Supported Standards	802.11 b/g/n
Bandwidth	Up to 300 Mbps
Security	WPA2 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.)

Compliance Specification

ADSL Standards	ANSI T1.413 i2 ITU G.992.1 G.dmt (ADSL1) ITU G.992.3 (ADSL2) ITU G.992.5 (ADSL2+, Annexes A & M)
Network Protocols	PPP over ATM (RFC 2364 PPPoA) PPP over Ethernet (RFC 2516 PPPoE) Bridged Ethernet over ATM (RFC 1483 / RFC 2684)
Electromagnetic Compliance	EN55022 - CSPIR 22 Class B (EMC) EN55024 - CSPIR 24 (Immunity) FCC Part 15 Class B
WiFi Compliance	EN 300328
Safety Standards	CB, IEC 60950, EN 60950 & AS/NZS 60950
AU Telecoms	AS/ACIF S041 & AS/NZS S043
EU Telecoms	ITU-T G.992.3 & G.992.5 (Annex A & M)
NZ Telecoms	PTC 273 (ADSL) PTC 257 (3G)
U.S. Compliance	FCC part 68
Environmental	Lead-free and RoHS compliant
Firewall	ICSA Certified, Stateful Packet Inspection

DSL Modem Specification

- ADSL2+ supporting fast downloads with speeds up to 25Mbps*
- Supports Annex A & M allowing uploads at speeds up to 2.5Mbps* (Annex M) and 1Mbps* (Annex A)

* Speeds indicated are for ideal conditions, actual maximum speeds will vary.



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