



# 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.

### 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.

Mako Networks was the first company in the world to hold a Level 1 PCI DSS certification for network management, the highest level of certification available.

### 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.

### 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.

### 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.

### 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.

### 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 Specifications

|                         |  |
|-------------------------|--|
| LAN Interface           | 2 x Ethernet RJ45 10/100Mbps ports. Auto crossover.                                      |
| WAN Interface           | 1 x RJ11 ITU G.992 ADSL 1/2/2+ port  |
| Power Supply            | External 100 or 240VAC Input (50 or 60Hz). 12VDC output.                                 |
| USB Port                | For support functions (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  |

## Features and Benefits

- Centrally managed, automated software updates, 24x7 monitoring, remote office access, advanced diagnostics and syslogs
- Detailed reporting including Mako usage, PC usage, remote VPN, current status and more
- Control over Internet access, traffic threshold management, high usage notifications and worm alerts
- A simple, uncluttered interface with enhanced ease of use and navigation
- Dual LAN with DHCP
- Dynamic DNS support
- VPN - 20 concurrent IPsec, 10 concurrent PPTP
- ICSA-certified firewall
- Optional PCI DSS compliance and optional Mako Guardian content filtering

## Certifications and Awards



Best Design Awards  
Winner 2011



## Compliance Specifications

|                            |   |
|----------------------------|---|
| ADSL Standards             | ANSI T1.413 i2<br>ITU G.992.1 G.dmt (ADSL1)<br>ITU G.992.3 (ADSL2)<br>ITU G.992.5 (ADSL2+, Annexes A & M)             |
| 2G Standards               | GSM, GPRS, EDGE   |
| 2G Frequencies             | 850, 900, 1800, 1900 MHz  |
| 3G Standards               | UMTS WCDMA / HSDPA / HSUPA  |
| 3G Frequencies             | 850, 900*, 1900, 2100 MHz   |
| Network Protocols          | PPP over ATM (RFC 2364 PPPoA)<br>PPP over Ethernet (RFC 2516 PPPoE)<br>Bridged Ethernet over ATM (RFC 1483 /RFC 2684) |
| Electromagnetic Compliance | EN55022 - CSPIR 22 Class B (EMC)<br>EN55024 - CSPIR 24 (Immunity)<br>FCC Part 15 Class B                              |
| 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)<br>PTC 257 (3G)  |
| U.S. Compliance            | FCC part 68   |
| Environmental              | Lead-free and RoHS compliant  |
| Firewall                   | ICSA Certified, Stateful Packet Inspection  |

\* Note: Not available on all versions

## DSL Modem Specifications

- Compliant with ADSL, ADSL2/2+, Annex-A & M and supports PPPoE, PPPoA, Bridged Ethernet
- 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.

For more information visit: [makonetworks.com](http://makonetworks.com)  
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