



Mako 7550 Gateway

Virtual Private Network Concentrator

VPN Concentrator & High Throughput Gateway.

The Mako 7550 enables large organizations to terminate hundreds of Internet Protocol Security (IPSec) Virtual Private Network (VPN) tunnels with the added functionality of the Mako Central Management System. The Mako System makes it easy to manage, monitor and report on all network activity, in addition to providing world-class security for larger corporate networks.

Complete Security

Mako 7750 appliances employ a host of industry-leading security technologies to protect the corporate networks.

Each 7550 incorporates a powerful stateful inspection firewall, meaning all traffic entering and leaving a network is scrutinized to ensure network connections are authorized.

All VPNs are protected using Advanced Encryption Standard 128-bit or 256-bit encryption to ensure data cannot be intercepted during transmission. Mako also supports Point-to-Point Tunneling Protocol (PPTP) for remote network access.

Port scanning protection incorporated into the Mako 7550 can detect and repel intruders attempting to discover network vulnerabilities by blocking IP addresses searching for open ports.

Mako 7550 appliances also protect against internal threats by using worm detection to identify and nullify threats from infected host computers on internal networks.

As all Mako 7550s are managed through the cloud using the Mako Networks Central Management System (CMS), software is automatically patched and updated on every Mako appliance connected to the Internet anywhere in the world.

Easy Setup VPNs

External locations and network endpoints protected by Mako appliances can be linked to the Mako 7550 in seconds by three easy mouse clicks from the CMS, without requiring static IP addresses.

Solutions for Every Customer Application

The Mako 7550 appliance is able to simultaneously terminate up to 100 VPN connections. Thanks to a choice of either ADSL2+ or Ethernet connectivity, the Mako 7550 can also serve as a primary means of Internet access, with four LAN ports for local network connections.

Centralized Logging/Reporting

Mako 7550 appliances securely send traffic information back to the 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

The Mako 7550-E appliance connects via Ethernet at speeds of up to 100 Mb per second, incorporating a fully featured TCP/IP router. Mako 7550-A units incorporate an ADSL router to provide access to the Internet at speeds up to 24Mb per second.

All Mako 7550 units can be used either to terminate VPN connections, or as a high throughput default network gateway.

Remote Diagnostics

Troubleshooting VPNs from a distance has traditionally been a difficult task, but the Mako System permits remote VPN diagnosis and restarts at the touch of a button using the secure CMS.

24-Hour Remote Control

Because Mako 7550 appliances utilize the cloud-managed Mako Networks CMS, network administrators have 24-hour secure remote control over Internet connections and VPNs from anywhere in the world.

High Availability Option

The Mako 7550 can be configured for High Availability failover when deployed with a second Mako 7550 unit. Using two Mako 7550 appliances, inbound VPNs can be diverted to a backup unit in the event of hardware or connection faults

Physical and Environmental Specifications

Chassis Dimensions	16.77 x 10.63 x 1.75 inches 426 x 270 x 44.4 mm (L x W x H)
Power Supply	ATX 220W, Input 90-264V
Operating Temperature	32° F to 104° F 0° C to 40° C
Humidity	5% - 95% relative, non-condensing

Hardware Specifications

Processor	1.2 GHz
System Memory	256 MB
Storage	128 MB DOM
LAN Interface	4x10/100 Mbps Ports
WAN Interface:	
7550-A	RJ11 ADSL Port
7550-E	RJ45 Ethernet Port
LED Indicators	Power, Info, Disk
LCD Screen	2x16 character LCD
External Cable	Power, RJ11 to ADSL Provider's Port (7550-A2 only)

DSL Modem Specifications

- Compliant with ADSL standards
- Full-rate ANSI T1.413 Issue 2 and ITU G.dmt (G.992.1)
- Splitless ITU G.lite (G.992.2)
- ITU G.992.3 - ADSL2
- ITU G.992.5 - ADSL2+
- DMT modulation and demodulation
- Rate adaptive
- Max downstream 24 Mbps
- Max upstream 1.4 Mbps
- Supports splitterless full rate operation
- Interoperable with all major DSLAMs

Certifications



ATM Protocols

- WAN mode support: PPPoA, PPPoE, Ethernet over ATM
- LAN mode support: RFC1577

7550-E Lite/7550-E Ethernet WAN

Supported Protocols

- IP
- DHCP client with MAC address spoofing
- PPP over Ethernet

Note: Mako 7550-E must have a public IP Address on its WAN interface and not be behind a firewall

Feature Specifications

Reporting	Usage, PC, Type, Remote VPN, SharkNet Intrusion Detection
Internet	Traffic Threshold Management, Extraordinary Usage Notification, Worm Alerts
LAN / Lite	7550 Lite: 100 Users, Dual LAN, DHCP, Static Routes
LAN / Full	7550: 250 Users, Quad LAN, DHCP, Static Routes
Firewall	Inbound, Outbound, Intranet, VPN
VPN / Lite	7550 Lite: 50 Concurrent IPSec, 40 Concurrent PPTP
VPN / Full	7550: 100 Concurrent IPSec, 40 Concurrent PPTP
Services	Outbound Quality of Service, Dynamic DNS Support
Optional Services	Mako Guardian Content Filtering, Advanced Diagnostics, Syslogs

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