



# AVANU®

## WebMux A500X/A500XD Network Traffic Manager

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Keeping Everyone Connected



### WebMux Network Traffic Manager Layers 4-7 Local Load Balancing Solution Mid-size to Enterprise-size Businesses



**Performance • Affordability**  
*Discover the Difference*



**Next Generation 64-bit Platform  
Single or Dual Hot-swap Power Supply  
8-core CPU Processing Power  
ASIC SSL Acceleration**

#### Highlights

- Easy GUI setup, trouble-free high performance, and low maintenance
- Supports extensive range of TCP/IP and UDP/IP based applications and services
- Powerful 64-bit processing
- High throughput performance (3.8 GB)
- 8-core CPU processing power
- Feature-rich integrated software
- Four load balancing operation modes (One-armed single network, one-armed out-of-path, two-armed NAT, two-armed transparent modes)
- Full-range load balancing scheduling methods
- Robust security (DDoS protection, Flood Control® feature for cybercrime protection, IPv4 to IPv6, TCP SYN protection, up to 8192-bit TLS/SSL encryption strength, TACACS+ and LDAP authentication, and Payment Card Industry/PCI compliant)
- IPv6 to IPv4 Translations (Supports IPv6 client requests to IPv4 servers)
- Custom health check (Application services, servers, and server farms)
- Built-in SSL termination
- ASIC SSL Acceleration
- Supports up to 5,000 servers
- Dedicated ports for out-of-band and in-band management access
- Server-grade error correcting code (ECC) memory
- Solid-state drive/SSD media reliability
- Hot-swap dual power supply options (80 Plus Gold Efficiency)
- Smart temperature controlled fans
- Self-contained (No extra hidden costs)
- No additional annual maintenance contract required (Includes full 2-year limited product warranty and 1-year software firmware updates and product technical support)
- 30-day money back guarantee

The WebMux A500X (Single Power Supply) and A500XD (Dual Power Supply) are affordable and powerful network traffic management appliances for managing, directing, controlling, and securing Layers 4-7 local network traffic.

WebMux provides high-reliability and high-availability of network traffic to its intended destinations by means of placing development emphasis on intensive algorithms that are built on the powerful 64-bit processor platform providing feature-rich performance using the best in class server-grade hardware that offers 8-core CPU processing power and ASIC SSL acceleration.

WebMux is easily configured and added to a local network as a plug-and-run appliance. With an easy graphical user interface (GUI) design setup, trouble-free high performance, low maintenance, and ongoing new feature additions and enhancements, WebMux meets the most demanding traffic load balancer needs for an extensive TCP/IP and UDP/IP based range of applications and services.

Why spend more for high performance and reliability? WebMux is the best affordable 64-bit strength load balancing solution for managing, directing, controlling, and securing Layers 4-7 local network traffic.

Other common names for network traffic management products include load balancers (LB), hardware load balancers (HLB), network load balancers (NLB), local traffic managers (LTM), and application delivery controllers (ADC).

The WebMux A500X and A500XD models come with a full two (2) year limited product warranty (parts and labor) and one (1) year software firmware updates and product technical support.

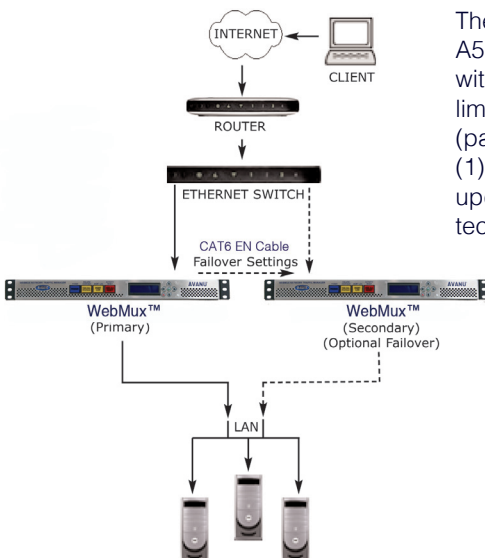


Diagram is for illustrative purpose only

## Load Balancing Scheduling Methods

Least connections, least connections-persistent, round robin, round robin-persistent, weighted fastest response, weighted fastest response-persistent, weighted least connection, weighted least connections-persistent, weighted round robin, weighted round robin-persistent



## Security

Authentication Method: TACACS+ and LDAP  
Denial of Service (DoS) and Distributed Denial of Service (DDoS) protection

Flood Control® (Additional IP level protection for DDoS attacks)  
HTTPS/SSH management

IPv4 to IPv6 support (Two-armed NAT, Two-armed NAT Transparent, One-armed Single Network, and One-armed Out-of-Path modes)

Network Address Translation (NAT/SNAT)  
Multiple address and port mapping

Payment Card Industry (PCI) Compliance  
TCP SYN protection

TLS/SSL Encryption Strength (512/1024/2048/4096/8192-bit)

## Management

Dedicated ports for out-of-band and in-band management access

Email notification

In service/Not in service

Port Bonding (802.3ad, LACP-Link Aggregation Control Protocol)

Port-specific services

Secure web browser access (GUI)  
SNMP

## Fault Tolerance

Application health check

Backup server

Diskless design

Failover via Ethernet link

Failover via multiple ISP links

Failover via network connection (Active/Standby)

Port aggregation

Server-aware

Service-aware

## Other Standard Features

Content switching

HTTP compression - Content encoding

IP support - Including basic Layer 2 protocols (STP, MSTP, RSTP), DNS, FTP, HTTP, IMAP, LDAP, NNTP, POP3, Radius, RDP [Terminal Services], SMTP, SNMP, SSH, Streaming media, TCP/IP & UDP/IP based applications & services, TFTP

IPv6 to IPv4 translation (Supports IPv6 client requests to IPv4 servers)

Link interface bonding

Multiple ISP support

Reverse Proxy

Software compression

TCP optimization

VLAN - Multiple, VLAN Trunking (IEEE 802.1Q)

## WebMux A500X and A500XD

3.8 GB Throughput/sec (Max)

7.5 Mil Layer 4 Concurrent Connections

8-Core CPU Processor

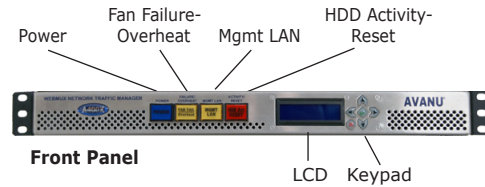
8 GB (ECC) Memory

A500X (Single Power Supply with option to add second);

A500XD (Dual Hot-swap Power Supply (80 Plus Gold)

50-60Hz; 95-130VAC or 195-235VAC

1U Chassis



## Management LAN Indicator

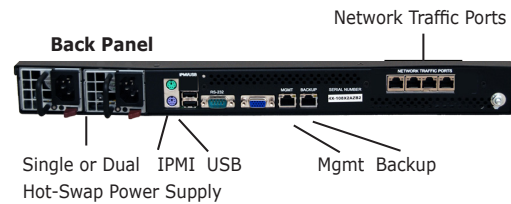
Management LAN interface link activity and system power

## Fan Failure / Overheat Indicator

Monitors fan operation status should any failure occur and CPU temperature should it rise above its limit

## HDD Activity/Reset

Hard reset to restart the WebMux and acts as an indicator of disk activity



## IPMI Port

In-band and out-of-band management network access

Remote control of power-on and power-off

Monitor temperature and fans

Access to remote console for troubleshooting

FRU (field replaceable unit) inventory data

## USB Port

Network alternative option for firmware updates and to collect log data

## Management Port

Gigabit Ethernet LAN to allow management (GUI and command-line) to be limited to a separate port for segregating management from load balanced traffic

## Backup Port

Used for two WebMux units in High Availability (HA) configurations. Cat 5 or 6 Ethernet cable is auto-sensed to straight or crossover. Link status LEDs will be lit when connected.

## Network Traffic Ports

Configurable Internet-to-Server load-balancing (Transparent, Single Network, Out-of-Path or NAT mode)