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U.S. SBA 8(a)/SDB Development Program Certified,
DoD CCR, FedConnect, and IAE's ORCA Certified

WebMux™ Load Balancers

Performance • Affordability
Discover the Difference

AVANU manufactures the highest quality load balancer appliances designed to maximize performance at the lowest cost of ownership (TCO). AVANU's WebMux™ load balancers offer easy configuration and advanced management with a robust set of traffic management features. WebMux™ functionality meets the most challenging networking requirements to always stay connected.



The WebMux™ load balancer also known as an application delivery controller hardware appliance offers Layers 4-7 Traffic Management with sophisticated features and straightforward management interfaces. Combined with its superior feature set with high availability and reliability, the WebMux line offers the industry's highest performance at the lowest cost. These load balancers are designed with great emphasis on a highly reliable architecture, intensive algorithms, and best in class hardware platform. Customers get the highest performance to meet the needs of a wide range of mission critical applications.

AVANU's goal is to offer valuable tools for the vast range of applications requiring traffic load balancing. The range can be from single tiers of Apache™, Microsoft® IIS, Sendmail™, Office Exchange Server 2010, SharePoint®, or Oracle® Application Server to performing sophisticated balancing of multiple tiers of unified communication applications - such as Microsoft® Office® Communications Server or Lync™ Server and beyond. AVANU's load balancers will continue to provide smart traffic management solutions at affordable prices.

Why WebMux™

Power of Simplicity

Network-focused functionality results in a proven simple interface for network load balancing

Affordability

Industry leading price for performance. WebMux offers the highest performance at the lowest cost

Dedication to Value

WebMux models are made with high-quality hardware dedicated for long life with feature upgrades that add greater value with each new firmware release

Adaptability

Network load balancing approach, focused on the protocols, eliminates the need for proprietary scripting languages at the application layer

Made in the USA

Designed in USA, using top-quality components from US companies, and assembled in the United States

WebMux™ Highlights

- 3 High Performing Model Options
- 1.7 Gbps up to 4 Gbps L4 Throughput
- 1,440,000 up to 5,760,000 L4 Concurrent Connections
- 65,000 up to 200,000 L4 Transactions/s
- 2 Gbps to 4 Gbps L4 Internet Link Speed
- 50,000 up to 144,000 L7 Connections
- 300 up to 4,000 1024-bit RSA Terminations/s (round trip)
- Integrated 20 Copper GigE Port Switch; Supports 4 Optical Fiber/Gb (690PG Model)
- IPv4 to IPv6
- Extensive Integrated Software Features

WebMux™ Applications Examples

- Unified Communications
- Enterprise Database Management
- Government Data Center Consolidation
- Video Streaming
- Web Service
- E-Commerce

WEBMUX MODELS AND SPECIFICATIONS

Models	481SD	592SGQ	690PG
Layer 4 Performance			
Concurrent connections (Max)	1,440,000 (a)	2,880,000 (a)	5,760,000 (a)
Transactions/sec (Max)	65,000	100,000	200,000
Throughput/sec (Max)	1.7 GBits	2.7 GBits	4 GBits
Internet Link Speed (Max)	2,000 MB/s	3,000 MB/s	4,000 MB/s
Layer 7 and SSL Acceleration			
1024bit RSA terminations/sec (Round trip; Max)	300	600 1,600 (b) 2,600 (c)	4,000
Layer 7 Connections/s (Max)	50,000	100,000	144,000
SSL Certificates Supported	32 (d)	32 (d)	32 (d)
HTTP Compression	Yes	Yes	Yes
TCP Optimization	Yes	Yes	Yes
Load Balancing Methods	Cookie content based URL based, Round-robin, Persistent round-robin, Weighted round-robin, Persistent weighted round-robin, Least connections, Persistent least connections, Weighted least connections, Persistent weighted least connection		
Traffic Management Methods	URL based content switch; Cookie based content switch		
Fault Tolerance	Diskless design, Port aggregation, Failover via network connection (optional on all models), Failover via Multiple ISP links, Failover via Ethernet link, Service-aware, Server-aware, Backup server		
Security	Flood Control™ (IP Level Protection for DDoS Attacks), Network Address Translation (NAT/ SNAT), TCP SYN protection, Address Mapping, Port mapping, Smart DDoS protection, HTTPS/SSH management, IPv4 and IPv6 Support		
Topology – 10/100/1000 Ethernet	Yes	x3 --- Multiple Tag based VLANs on all models ---	20 Ports (Built-in switch)
Device Support			
Interface to switches	Gigabit x2	Gigabit x3 in bond mode	Gigabit 20+4
	Up to 65,532 Real Servers, Unlimited Virtual Servers, Bridge/Router Role in Network (plus switch in 690PG), UDP-based service support		
Management	Secure web browser access, In service/Not in service, SNMP, Phone/Pager alarm notification, Email notification, Configuration access, Persistent connections, Port-specific services		
Service Support	One-year product warranty (Parts & Labor), firmware updates, and technical support (telephone/email) Pre-configuration prior to shipment (no additional cost) Optional Annual Premium Support covers 24x7 technical support with overnight exchange unit option		
Physical			
Rack Mount Form Factor	----- 1U (19"x14"x1.75") -----		2U
Redundant Power Supply			Yes
Power Consumption (Max)	120w	200w	350w
115VAC Current	2.5A	3.5A	5A
Heat Production	350BTU/H	550BTU/H	800BTU/H
Power Requirements @50-60Hz	----- 95-130VAC or 195-235VAC ----		
Operating Temp Range	0-40°C	0-40°C	0-40°C
Ship Weight	20 lbs	20 lbs	45 lbs + 6 lbs
Compliance & Certification	Part 15, FCC (US), Class B (Canada), CE Mark (Europe), FIPS 140-2 standard, NIST (latest industry-standard Open SSL modules), RoHS		
Other	30 Day Money Back Guarantee (Subject to restocking fee; contact AVANU for details)		

Notes: a) Performance based on NAT/In-Path mode (higher performance with Direct Response/Out-of-Path mode); b) with optional RSA3500 SSL Acceleration card; c) with optional RSA7000 SSL Acceleration Card; d) Contact AVANU for additional SSL Certificate support

AVANU®

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