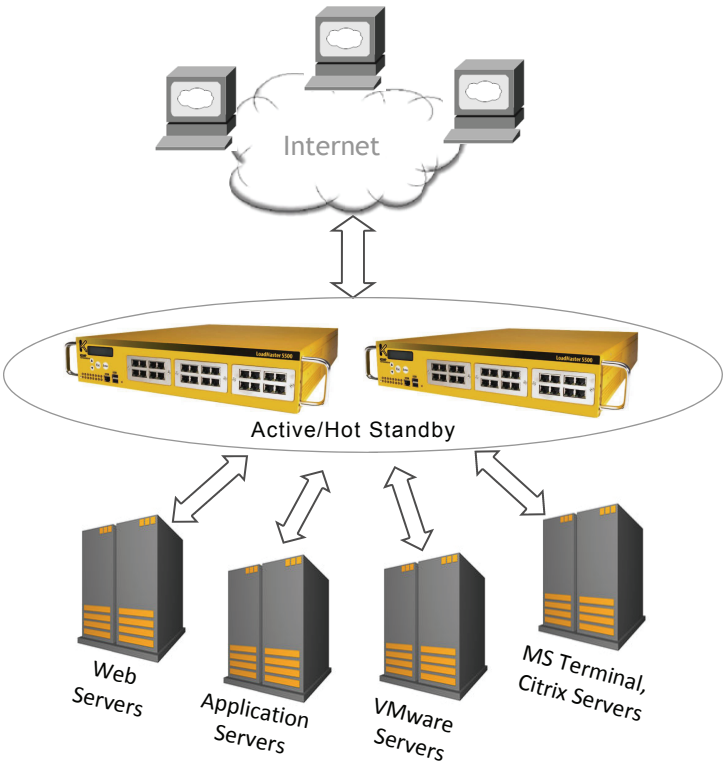
LoadMaster 5500

KEMP TECHNOLOGIES, INC.

- *Application Delivery Optimization*
- *Server Load Balancing*
- *SSL Acceleration*



The LM5500 can load balance up to 1000 servers and 1000 virtual clusters

The LoadMaster 5500 is an advanced, server load balancing and Layer 7 content switching appliance with integrated ASIC-based SSL Acceleration. The LoadMaster intelligently and efficiently distributes Web traffic among Web servers so that your site's users get the best experience possible.

The LoadMaster 5500 is an essential component of high availability, clustering and fault tolerance, all of which provide the infrastructure for reliable Internet sites and large corporate intranets.

Combining the latest advancements in Layer 4 and 7 server load balancing technology with high-performance hardware platform, the LoadMaster 5500 is a value leader in purpose built Internet Traffic Management appliances.

Pb lead-free RoHS 2002/95/EC

Feature	Benefit
High Performance L4/7 Server Load Balancing	Ensures each user gets the best application experience possible
Active/Hot-Standby, with Stateful Failover	Provides 99.999% high-availability of application servers and removes SLB as single point of failure
Server Hardware and Application Health Checking	Guarantees user requests will be directed to only "available" severs AND "available" applications.
IP and Cookie Persistence	Ensures that users maintain continuous connections with the specific server where "their" transactional data is available – even if the IP address changes during session
Layer 7 Content Switching	Enables site administrators to optimize server traffic according to content type (images, multi-media, apps)
SSL Acceleration/Offload in ASIC	Optimized server performance and user experience for encrypted application content
Compression, Cache	Reduces latency associated with internal network while further optimizing performance over existing ISP link
Intrusion Prevention Systems (IPS)	Helps thwart application-level threats, even with SSL- encrypted traffic

KEMP Technologies, Inc. ◇ 12 Old Dock Road, Yaphank, New York, 11980
Tel. (631) 345-5292 ◇ www.KEMPTechnologies.com ◇ info@KEMPTechnologies.com

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Specifications v4.3*

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Standard

Server Load Balancing (SLB) for TCP/UDP based protocols
SSL Acceleration/Offload in ASIC
Layer 7 Content Switching
Advanced, App-Transparent Caching Engine for HTTP/HTTPS protocols
Optimized Compression for Static and Dynamic HTTP/HTTPS Content
Layer 7 Intrusion Prevention System (IPS), SNORT-Rule Compatible
Up to 1000 Virtual and 1000 Real Servers
NAT-based forwarding
Support for Direct Server Return (DSR) configurations
Support for MS Terminal Services with Session Reconnection Built-in
Configurable S-NAT support
VLAN Tagging (802.1Q)

Performance

Max Balancer L4 Throughput Up To 6Gbps
Max Balancer L7 Throughput Up To 5Gbps
100,000 L7 (http) requests per second
200,000 L7 concurrent connections
30,000,000 L4 concurrent connections
SSL Acceleration Up to 10,000 TPS

SSL

ASIC-enabled, hardware SSL Acceleration
PCI-DSS ready SSL Implementation
Support for up to 1000 SSL Certificates
Support for Third Party Certificates
Automated SSL Certificate Chaining
SSL Certificate Signing Request (CSR) Generation

Health Checking & High Availability

ICMP health checking of server farm machines
Layer 7 checking for DNS, FTP, HTTP, IMAP, NNTP, POP3, SMTP, WTS (RDP), TELNET
Automatic reconfiguration for defective real server machines
Active/Hot Standby configurations for High Availability
Stateful Failover

Administration

Fully configurable using Web User Interface (WUI)
Secure, SSH and HTTPS (WUI) remote access for administration
Easy start and maintenance using wizards
WUI-based Help Assistant
Virtual Service Configurations can be edited and tuned on-the-fly
Real time performance and availability displays
Graceful Administrative removal of Real Servers
Console port for local administration
Remote syslogd support
Selective restore of LoadMaster and Virtual Service data
Support for Connection Draining

Download software updates for LoadMaster firmware
WUI Log Reporting with Tabbed Browser Support
SNMP support for event traps & performance metrics
Diagnostic shell with in-line tcpdump

Scheduling and Balancing Methods

Round Robin
Weighted Round Robin
Least Connection
Weighted Least Connection
Agent-based Adaptive
Chained Failover (Fixed Weighting)
Layer 7 Content Switching

L4/L7 Sticky (Persistence)

Connection persistency based on
- Source IP address
- SSL Session ID
- RDP Login ID for MS Terminal Services
- URL
- Host Header
- Passive Cookie
- Active Cookie (Insert)
- Cookie Hash
- Cookie Hash Source
- Query Hash

Port following for persistency options

Security Functionality

Layer 7 Intrusion Prevention System (IPS), SNORT-Rule Compatible
Black List (Access Control List system)
IP address filtering
Firewall filtering (everything forbidden except VS's)
DDoS mitigation

Hardware Platform

2 X Intel Xeon Quad-Core Processors
18 X GbE Auto-negotiating, Full Duplex Eth. Ports
Up to 8 X Optional Fiber SFP Modules
Bootable DOM (No Hard Disks)
4GB RAM
Local admin via console/VGA and USB
Dimensions: 424 x 600 x 88 mm. Weight ~ 55bs (25kg)
2 X 460W ATX (Redundant, Hot-Swap) Power Supplies
Certifications: CE/FCC Class A, UL Listed, RoHS Compliant

* Specifications are subject to change without prior notice.

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