

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



### Affordable Layer 4-7 Load Balancing w/Enhanced SSL Performance

The LoadMaster™ 2400 is an affordable and feature-rich server load balancer. Providing enhanced SSL acceleration capabilities coupled with intelligent Layer 7 application content switching it delivers on the needs of administrators to support an increased number of secure connections for their application deployments – while staying on budget.

The LoadMaster™ 2400 is an essential component to include for high availability of critical application infrastructure in small private cloud environments.

Combining the latest advancements in Layer 4 to Layer 7 application delivery technology, LoadMaster™ is the Load Balancer of choice for providing high availability services in cloud, web and application infrastructures.



The LM2400 can load balance up to 1000 servers and 256 virtual clusters

Feature	Benefit
High Performance L4/7 Server Load Balancing	Ensures each user gets the best application experience possible
Server Hardware and Application Health Checking	Guarantees user requests will be directed to only “available” servers and “available” applications
IP and L7 Persistence	Ensures that users maintain continuous connections with the specific server where “their” transactional data is available – even if the IP address changes or the session is temporarily interrupted
SSL Acceleration/Offload	Optimizes server performance and user experience for encrypted application content
Advanced Application Delivery Features	Accelerates traffic and reduces latency through intelligent Content Caching, Content Compression and Content Switching
Intrusion Prevention System (IPS)	Thwarts application-level threats even when masked in encrypted application content
Global Server Load Balancing Support	Allows intelligent distribution of delegated services across multiple data centers based on location of client or other pre-configured rules
Pre-Authentication and Single-Sign On	Validates user access to resources prior to forwarding requests to application servers and facilitates a simple user login experience across multiple applications serviced by LoadMaster

# LoadMaster™ 2400

Specifications v7.0\*

# KEMP

# #1 Load Balancer

in price/performance

## Standard

Server Load Balancing (SLB) for TCP/UDP based protocols  
SSL Acceleration/Offload  
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 256 Virtual and 1000 Real Servers  
IPv6 support for addressing and features  
IPv6 - IPv4 bidirectional conversion  
NAT- based forwarding  
Support for Direct Server Return (DSR) configurations  
Support for MS RDS with Session Reconnection Built-in  
Configurable S-NAT support  
VLAN Trunking (802.1Q)  
Link Interface Bonding (Modes supported: 802.3ad, Link Failover)  
Edge Security Pack (Pre-Authentication & SSO)

## Performance

Max Balancer L4 Throughput Up To 1.2Gbps  
Max Balancer L7 Throughput Up To 1.0Gbps  
Max Interface Throughput 4 X 949.2Mbps  
50,000 L7 (http) requests per second  
75,000 L7 concurrent connections  
4,300,000 L4 concurrent connections  
SSL Acceleration  
1K Keys up to 1,000 TPS  
2K Keys up to 200 TPS

## SSL

SSL Acceleration w/ support for 2048bit RSA Keys  
Support for EV (Extended Validation) Certificates  
PCI-DSS ready SSL Implementation  
Support for up to 256 SSL Certificates  
Support for Third Party Certificates  
Automated SSL Certificate Chaining  
SSL Certificate Signing Request (CSR) Generation  
STARTTLS offload for mail protocols (POP3, SMTP, etc.)  
FIPS 140-2 Level 1 capable

## Health Checking & High Availability

ICMP health checking of server farm machines  
Layer 7 checking for DNS, FTP, HTTP, IMAP, NNTP, POP3, SMTP, WTS (RDS), 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  
Automation/Orchestration via REST API  
Real time performance and availability displays



Preconfigured Applications templates  
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)  
Source-IP Hash  
Layer 7 Content Switching  
Global Server Load Balancing (GSLB) Support

## Sticky (Persistence) Connection Options

Source IP (L4)  
SSL SessionID (L4)  
HTTP/HTTPS Browser-session (L7)  
HTTP/HTTPS WebClient-session (L7)  
RDP Login ID (L7)  
Port Following for mixed HTTP/HTTPS sessions

## Security Functionality

Layer 7 Intrusion Prevention System (IPS),  
SNORT-Rule Compatible  
Global & per VS Black list and White list (Access Control List)  
IP address filtering  
Firewall filtering (everything forbidden except VS's)  
DDoS mitigation, including L7 rate based attacks

## Hardware Platform

Intel Dual Core Processor  
4 X GbE Auto-negotiating, Full Duplex Eth. Ports  
Solid State Storage  
1 GB RAM  
Local admin via console/VGA and USB  
Dimension: 426mm (W) x 365mm (D) x 44mm (H)  
Weight: 15.4lbs (7kg)  
200W ATX power supply

\* Specifications are subject to change without prior notice.

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