## LoadMaster™ 2400

- Application Delivery Optimization
- Server Load Balancing
- TLS (SSL) Offload

### Affordable Layer 4-7 Load Balancing with Enhanced SSL Performance

The LoadMaster™ 2400 is an affordable and feature-rich application load balancer. Providing enhanced TLS (SSL) offload and 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 LoadMaster™ 2400 can load balance up to 1000 servers and 256 virtual clusters.

### Feature and Benefit Table

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
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</thead>
<tbody>
<tr>
<td>High Performance L4/7 Server Load Balancing</td>
<td>Ensures each user gets the best application experience possible.</td>
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<tr>
<td>Active/Hot Standby, with Stateful Failover</td>
<td>Removes load balancer as a single point of failure</td>
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<td>Server and application health checking</td>
<td>Guarantees user requests will be only be directed to available servers and available applications</td>
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<tr>
<td>IP and L7 persistence</td>
<td>Maintain connections with the user’s specific server even if their IP address changes during session</td>
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<td>Layer 7 content switching</td>
<td>Optimize server traffic according to content type</td>
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<tr>
<td>TLS (SSL) offload</td>
<td>Optimizes server performance and user experience for encrypted application content</td>
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<tr>
<td>Compression and caching of content</td>
<td>Reduces internal network latency and optimizes bandwidth for best possible client experience</td>
</tr>
<tr>
<td>Intrusion Prevention Systems (IPS)</td>
<td>Thwarts application threats in both non-encrypted and encrypted traffic streams</td>
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</tbody>
</table>
LoadMaster™ 2400

Specifications version 7.1

Standard
- Server Load Balancing (SLB) for TCP/UDP based protocols
- TLS (SSL) Offload
- Layer 7 Content Switching
- Advanced application transparent caching for HTTP/HTTPS
- Optimized compression of static and dynamic HTTP/HTTPS Content
- SNORT-rule compatible Layer 7 intrusion prevention system (IPS)
- 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
- Session reconnection for Microsoft remote desktop services (RDS)
- Configurable S-NAT support
- VLAN Trunking (802.1Q)
- Link interface bonding (802.3ad)
- HTTP/2 Layer 7 Proxy

Edge Security Pack
- Microsoft TMG replacement
- Pre-Authentication & SSO
- Multi-Domain authentication
- X.509 client certificate authentication
- Custom login forms
- Two factor authentication

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

TLS (SSL)
- Configurable TLS (1.0, 1.1, 12) and SSL (2.0, 3.0)
- Support for EV (Extended Validation) certificates
- Server Name Identification (SNI) support
- Support for up to 256 TLS (SSL) certificates
- Automated TLS (SSL) certificate chaining
- TLS (SSL) Certificate Signing Request (CSR) generation
- STARTTLS offload for mail protocols (POP3, SMTP, IMAP)
- FIPS 140-2 Level 1 mode

Health Checking & High Availability
- Aggregated health checks
- ICMP health checking
- Layer 7 checking against any target server port
- Active/Hot Standby configurations for High Availability
- Stateful Failover

Administration
- Flexible administration Options
  - Web User Interface (WUI)
  - SSH
  - Console
  - RESTful, JAVA and PowerShell APIs
  - VMware vRealize Orchestrator
- Change Auditing
- Wizards for simplified deployment
- Context based help (WUI)
- Real time display of performance and availability
- Application templates
- Remote syslogd support
- Automated configuration backup
- Selective restore of configuration
- Connection draining
- Comprehensive logging and reporting
- SNMP support
- 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)
- AD Group based traffic steering

Session Persistence
- Source IP (L4)
- TLS (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
- SNORT-Rule Compatible L7 Intrusion Prevention System (IPS)
- Permit /Deny Access Control Lists
- IP address filtering
- DDoS mitigation, including L7 rate based attacks
- IPSec VPN to Azure, AWS and vCloud Air public clouds
- Authenticated NTP

Hardware Platform
- Intel Dual Core Processor
- 4 X GbE Auto-negotiating, Full Duplex Eth. Ports
- Solid State Storage
- 2 GB RAM**
- Local admin via serial and VGA/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.
** 2GB configuration denoted by “R02” label. Prior releases contained 1GB.