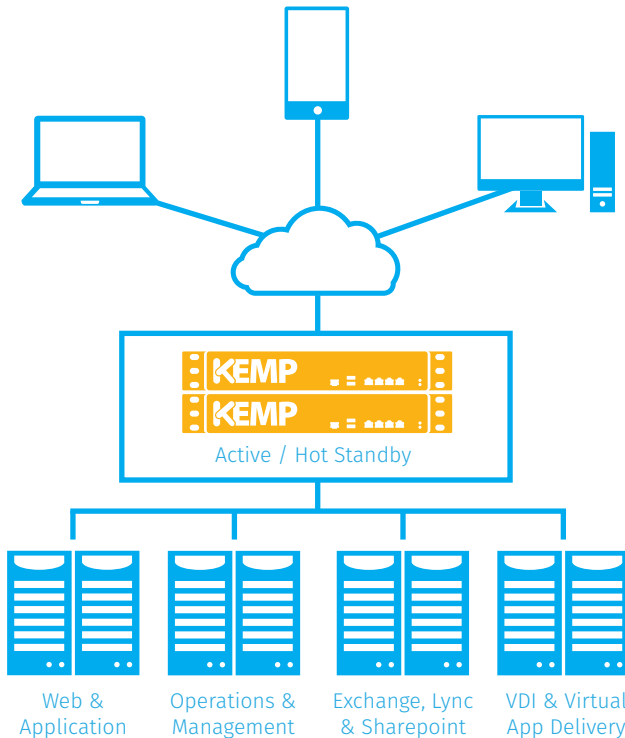


# LoadMaster™ 4000

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



## Optimized Performance for High Transaction Web Infrastructure

Delivering 6 Gbps L7 throughput and 2500 SSL transactions per second (TPS), the LoadMaster™ 4000 offers the capacity and features to support high volume web infrastructure environments. High performance load balancing and content switching combined with web application firewall protection, intrusion prevention and endpoint authentication ensures that internet-facing services and sites are not only highly available but also secure. Traffic may be securely distributed across on premise and public cloud environments via integrated IPsec VPN capabilities.

The LoadMaster™ 4000 is an essential enabler for resilient delivery of a wide range of application workloads in medium and large scale environments.

Combining the latest advancements in Layer 4 to Layer 7 application delivery technology, LoadMaster™ is the Application Delivery Controller (ADC) of choice for providing high availability services in cloud, web and application infrastructures

| FEATURE                                     | BENEFIT                                                                                                                                                               |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Performance L4/7 Server Load Balancing | Ensures each user gets the best application experience possible.                                                                                                      |
| Active/Hot-Standby, with Stateful Failover  | Removes load balancer as a single point of failure                                                                                                                    |
| Server and application health checking      | Guarantees user requests will be only be directed to 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 during session |
| Layer 7 content switching                   | Optimize server traffic according to content type                                                                                                                     |
| TLS (SSL) offload                           | Optimizes server performance and user experience for encrypted application content                                                                                    |
| Compression and caching of content          | Reduces internal network latency and optimizes bandwidth for best possible client experience                                                                          |
| Intrusion Prevention Systems (IPS)          | Thwarts application threats in both non-encrypted and encrypted traffic streams                                                                                       |

# LoadMaster™ 4000

Data Sheet

## 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 500 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)
- Edge Security Pack (Pre-Auth& SSO)

### Performance

- Max Balancer L4 Throughput Up To 6.2Gbps
- Max Balancer L7 Throughput Up To 6.0 Gbps
- 165,000 L7 (http) requests per second
- 250,000 L7 concurrent connections
- 15,200,000 L4 concurrent connections
- TLS (SSL) Acceleration
  - 2K Keys up to 2500 TPS
  - 1K keys up to 5000 TPS

### TLS (SSL)

- Configurable TLS (1.0, 1.1, 1.2) 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)

### Health Checking & High Availability

- 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 API
- Wizards for simplified deployment
- Context based help (WUI)
- Automation and orchestration via RESTful API
- Real time display of performance and availability
- Application templates for all major workloads
- Remote syslogd support
- Automated configuration backup
- Selective restore of configuration
- Connection draining for managed outages
- 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)

### 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 Functionality

- Web Application Firewall (WAF)
- SNORT-Rule Compatible L7 Intrusion Prevention System (IPS)
- Permit /Deny Access Control Lists
- IP address filtering
- IPsec Tunnel support
- DDoS mitigation, including L7 rate based attacks

### Hardware Platform

- Intel Xeon Quad Core Processor
- 2 X 1GbE Auto-negotiating, Full Duplex Eth. Ports
- 2 X 10G (SFP+) Ports
- 8 GB RAM
- Local admin via serial and VGA/USB
- Dimension (1U): 434mm (W) x 394.3mm (D) x 42.4mm (H)
- Weight: 17.76lbs (7.9kg)
- 250W power supply

\* Specifications are subject to change without prior notice.