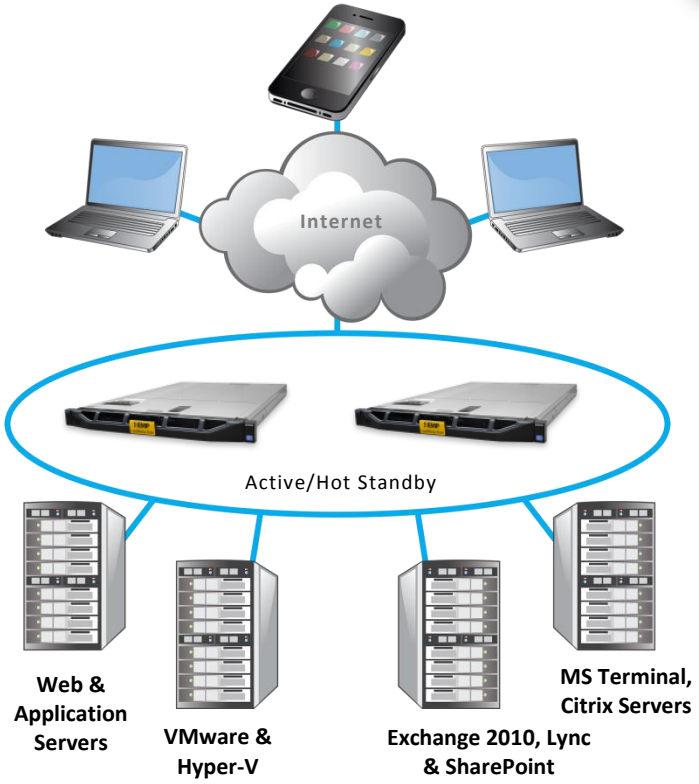
LoadMaster™ R320

KEMP | #1 Load Balancer in price/performance

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



The LoadMaster™ R320 is a high performance, 6 x 1GbE and 2x10G port server load balancing and Layer 7 content switching appliance. The LoadMaster™ intelligently and efficiently distributes Web traffic among Web servers so that your users get the best experience possible.

The LoadMaster™ R320 is an essential component of high availability data center clusters supporting fault tolerance, delivering on the infrastructure requirements for reliable Internet sites and large intranets.

Combining the latest advancements in Layer 4 and 7 server load balancing technology with a high-performance hardware platform, the LoadMaster™ R320 is a leader in purpose built Internet Traffic Management appliances

The LMR320 can load balance up to 1000 servers and 1000 virtual clusters

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 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	Enables site administrators to optimize server traffic according to content type (images, multi-media, apps)
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
Dual SFP+ Ports included	Built in support for high performance 10G networking

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LoadMaster™ R320

Specifications v6.0*

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Standard

Server Load Balancing (SLB) for TCP/UDP based protocols
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
IPv6 support for addressing and features
IPv6 - IPv4 bidirectional conversion
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 Trunking (802.1Q)
Link Interface Bonding (Modes supported: 802.3ad, Link Failover)

Performance

Max Balancer L4 Throughput Up To 7Gbps
Max Balancer L7 Throughput Up To 6.5Gbps
96,000 L7 (http) requests per second
200,000 L7 concurrent connections
SSL Acceleration Up to 8,000 TPS

SSL

Support for EV (Extended Validation) Certificates
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
STARTTLS offload for mail protocols (POP3, SMTP, etc.)
FIPS 140-2 Level 1 capable

Health Checking & High Availability

ICMP health checking of servers
Layer 7 checking for DNS, FTP, HTTP, IMAP, NNTP, POP3, SMTP, WTS (RDP), TELNET
Automatic reconfiguration for defective real servers
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
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

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 Xeon Quad-Core Processor
6 X 1GbE Auto-negotiating, Full Duplex Eth. Ports
2 X 10G SFP+ ports
Solid State Storage
8GB RAM
Local admin via console/VGA and USB
Dimensions: 434mm (W) x 642.3mm (D) 42.8 (H)
Weight: 15.4lbs (7kg)
Dual 350W Power Supplies
Certifications: CE/FCC Class A, UL, RoHS Compliant

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