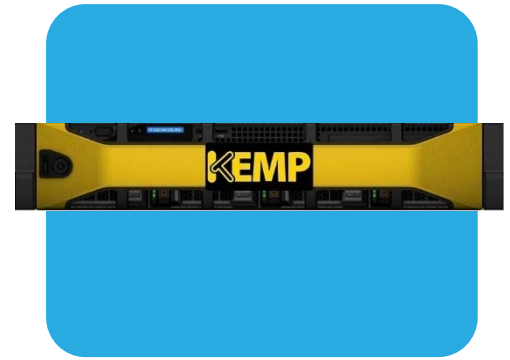
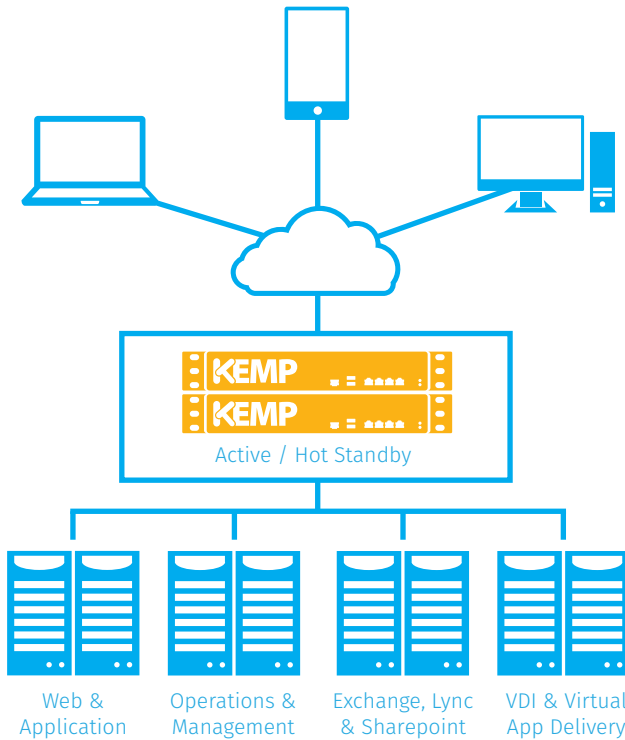


LoadMaster™ 8020-FIPS

Data Sheet

- FIPS 140-2 Level 2
- Application Delivery Optimization
- Server Load Balancing



GSA Approved

TAA Compliant

Optimized Performance and Security for FIPS-Compliant Deployments

The LoadMaster™ 8020-FIPS offers capacity and features to support high traffic application requirements in FIPS-compliant infrastructures.

High performance load balancing and content switching combined with web application firewall protection, intrusion prevention and endpoint authentication ensures that published applications are highly available and protected from malicious threats. An integrated FIPS 140-2 L2 Validated HSM combined with KEMP's LoadMaster Operating system (LMOS) validated under cert # 2473 means that traffic can be securely terminated and distributed for mission critical application deployments.

The LoadMaster™ 8020-FIPS is an essential component for deployments requiring application performance optimization and FIPS 140-2-compliant handling of SSL operations.

FEATURE	BENEFIT
High Performance L4/7 Server Load Balancing	Ensures each user gets the best application experience possible.
Web Application Firewall Pack (AFP)	Protection against application level attacks and simplifies PCI-DSS compliance
Server and application health checking	Guarantees user requests will be only be directed to available servers and available applications
FIPS 140-2 Level 2	Allows government agencies to effectively meet mandated security standards
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™ 8020-FIPS

Data Sheet

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 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
- 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)
- CAC/PIV – Kerberos Constrained Delegation support

Performance

- 30Gbps Max Balancer L7 throughput
- 75,800,000 max concurrent connections
- 9,000 TLS (SSL) 2K Keys
- Cavium CN1620-NFBE3-3.0-FW2.2-G HSM (FIPS 140-2 L2) – NIST Cert 2316
- LoadMaster Operating System (LMOS) 7.2 – NIST Cert 2473
- Support for EV (Extended Validation) certificates
- Server Name Identification (SNI) support
- PCI-DSS ready SSL Implementation
- Support for up to 1000 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
 - Java API Wrapper
 - Powershell API Wrapper
- 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)
- SDN Adaptive

Security Functionality

- Web Application Firewall (WAF)
- SNORT-Rule Compatible L 7 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 2x12 Core Processor
- 8 X 10Gb SFP+ Ports
- 64 GB RAM
- Local admin via serial and VGA/USB
- Dimension (2U): 482.4mm (W) x 684mm (D) x 87.3mm (H)
- 750W Hot-plug, Redundant (1+1) PSU
- Includes 'Leave-Behind' Disk Option

* Specifications are subject to change without prior notice.