LoadMaster™ 5305-FIPS
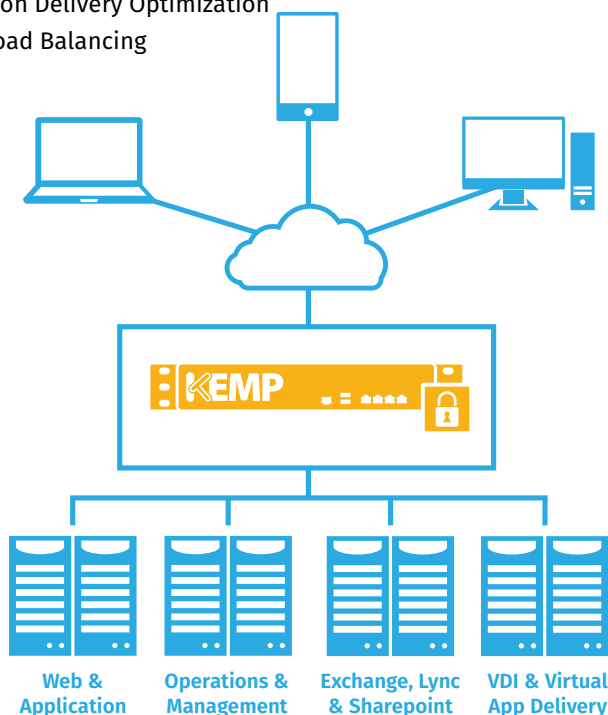
Data Sheet

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

Web & Application

Operations & Management

Exchange, Lync & Sharepoint

VDI & Virtual App Delivery

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 Hardware and Application Health Checking	Guarantees user requests will be directed to only available severs and available applications
FIPS 140-2 Level 2 Support	Allows required agencies to effectively meet this mandated security standard
Layer 7 Content Switching	Enables site administrators to optimize server traffic according to content type
TLS (SSL) Acceleration/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

Comprehensive Application Delivery with FIPS 140-Level 2 Support

The LoadMaster™ 5305-FIPS combines server load balancing and Layer 7 content switching with an integrated FIPS 140-2 Level 2 compliant HSM supporting secure key handling and ASIC-based TLS (SSL) acceleration. This integration allows the 5305 to intelligently, efficiently and securely distribute application traffic among servers giving end-users the best experience possible in FIPS-compliant environments without compromising security.

The LoadMaster™ 5305-FIPS serves as an essential component of any highly available environment requiring compliance with FIPS 140-2 Level 2 by delivering a comprehensive feature set with low TCO/TCA and competitive return on investment.

Combining the latest advancements in Layer 4 to Layer 7 application delivery technology, LoadMaster™ is the application delivery controller of choice for securing services in highly available cloud, web and application infrastructures.

LoadMaster™ 5305-FIPS

Standard

- Server Load Balancing (SLB) for TCP/UDP based protocols
- TLS (SSL) Acceleration and offload
- Layer 7 Content Switching
- Advanced application transparent HTTP/HTTPS caching
- Optimized compression of static and dynamic HTTP/HTTPS content
- Application level protection with Web Application Firewall (WAF)
- SNORT-rule compatible Layer 7 intrusion prevention system (IPS)
- Up to 1,000 Virtual and 1,000 Real Servers
- IPv6 support
- 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
- 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 Balancer L4 Throughput Up To 3.6Gbps
- Max Balancer L7 Throughput Up To 3.3Gbps
- 110,000 L7 (http) requests per second
- 400,000 L7 concurrent connections
- 25,600,000 L4 concurrent connections
- SSL Acceleration up to 1,100 TPS (2K keys)
- TCP/IP Multiplexing

TLS (SSL)

- ASIC enabled TLS (SSL) acceleration w/ support for 2048bit RSA Keys
- Support for EV (Extended Validation) Certificates
- PCI-DSS ready SSL Implementation
- Support for up to 1,000 SSL Certificates
- Automated SSL Certificate Chaining
- Certificate Signing Request (CSR) Generation
- STARTTLS offload for mail protocols (POP3, SMTP, IMAP)
- FIPS 140-2 Level 2 certified Hardware Security Module (HSM)

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
- Scale-out Clustering

Administration

- Fully configurable using Web User Interface (WUI)
- Flexible administration Options
  - Web User Interface (WUI)
  - SSH
  - Console
  - RESTful, JAVA and PowerShell APIs
- Wizards for simplified deployment
- Context based help (WUI)
- Real time display of performance and availability
- Application templates Console port for local administration
- 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)

Session Persistence

- 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

- Web Application Firewall Pack (AFP)
  - Data Loss Prevention (DLP)
  - Mitigation of OWASP Top 10
  - Support PCI-DSS compliance
  - Real-time protection for applications
- SNORT-Rule Compatible L 7 Intrusion Prevention System (IPS)
- Permit / Deny Access Control Lists
- IP address filtering
- DDoS mitigation, including L7 rate based attacks
- Authenticated NTP

Hardware Platform

- Intel Xeon Quad-Core Processor
- 8 X 1GbE Auto, Full Duplex Ports
- Solid State Storage
- 8 GB RAM
- Dimension: (1U) 426 x 450 x 44(mm)
- Weight: 19lbs (8.5kg)
- 2 x 200W ATX PSU (Redundant, Hot-Swap)
- Certifications: CE/FCC Class A, UL, RoHS Compliant

* Specifications are subject to change without prior notice.