LoadMaster™ LM-8020-FIPS

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 FIPS 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.

Performance

Application throughput (Layer 4)	31.4 Gbps
Application throughput (Layer 7)	30.0 Gbps
SSL TPS (2K Keys)	9,000
Concurrent Connections (Layer 4)	75,800,000
Concurrent Connections (Layer 7)	525,000
Layer 7 HTTP requests/sec	450,000

Certification & Compliance

FIPS 140-2 Level 2*	NIST Cert 2316
FIPS 140-2 Level 1*	NIST Cert 2473
UL	UL 60950-1, 2nd Edition, 2011-12-19 CSA C22.2 No. 60950-1-07, 2nd Ed., 2011-12
IEC	IEC 60950-1:2005 ed2 +A1:2009 EN 60950-1:2006 +A1:2010 +A2:2013 +A11:2009 +A12:2011
CE	EN 55022:2010 EN 55024:2010 EN 61000-3-2:2006 +A1:2009 +A2:2009 EN 61000-3-3:2008
FCC	US CFR Title 47, FCC Part 2, 15 ANSI C63.4 2009 Canadian ICES-3(A)/NMB-3(A), Issue 5
VCCI	2013-04 ClassA / Classification code A1
RoHS Directive 2011/65/EU	Yes
WEEE	Yes
REACH	Yes
Made in USA compliant	Yes

Hardware Platform

CPU	Intel Xeon
CPU Model Number	2 x E5-2687W v4 @ 3.0GHz; 12C/24T
Memory (RAM Size)	64GB
Storage	1TB HDD
Hardware SSL Acceleration	1x Cavium CN1620-NFBE3-3.0-FW2.2-G
PCI-E Slots	2
Gigabit Ethernet Ports	0
10 Gigabit Ports (SFP+)	8
VGA Ports	2
Console Ports	1 (DB9 male)
Rack Size	2U
Dimensions (with Bezel)	482.4 x 716.0 x 87.3mm (19.0 x 28.2 x 3.4 in)
Weight	55.12lbs / 25kg
Dimension of carton	35.8 x 24.0 x 11.8 in (91 x 61 x 30 cm)
Storage Temperature	-40 to 149 °F (-40 to 65°C)
Operating Temperature	50 to 95 °F (10 to 35 °C)
Storage Humidity	5% to 95% non-condensing
Operating Relative Humidity	10% to 80% non-condensing
Max Altitude in Operational Mode	10000 feet (3048 meters)
Max Altitude in Non-Operational Mode	39370 feet (12000 meters)
Input Voltage and Frequency Ranges	200 - 240 VAC; 47-63Hz
Redundant Power Supply	Yes
Max power supply	2 x 750W
Total Power Consumption (W)	470W
Total Amp Drawn (A)	10.0 A
Power Dissipation	40 - 45W
Heat Output (BTU)	2843
Acoustic Noise (dB)	Idle 15, Standby 29, Stressed 31

*Details for FIPS certifications at http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/140val-all.htm