

# RS12-38800 – Network Centric Storage

12-bay SAS/SATA II network storage server with dual CPU quad-core Xeon, RAID, encryption engine and flexible network connectivity

## 3U Enterprise Network RAID Storage Server

### 12-Bay RAID Storage

A hardware RAID card provides RAID features for enhanced data reliability. RAID levels 0, 1, 10 and 5 are supported across all 12 SATA II or SAS interface hard drives.

### Network Security and Acceleration

High storage density for enterprise-class network security applications, such as firewall, UTM, antivirus, IDS/IPS, VPN, content filtering, load balancing, bandwidth management and WAN acceleration.

### Network Modulization

The RS12-38800 supports three network modules for easy customization. With a range of module choices; fibre, fibre by-pass, 10G, 10G bypass, or a host of GbE RJ45 modules, Lanner makes it easy for you to mix and match to build the platform you require.

### Core Architecture

Built around the Intel 5000P chipset, the RS12-38800 supports two Quad-core Intel Xeon processors, 8 fully buffered Dimms, and two PCI-Express networking modules. The RS12-38800 supports 12 hot-swappable hard drives, while an optional Cavium encryption engine offloads layer 4 processing to reduce CPU load and deliver more efficient system performance.

### Built In Redundancy, Serviceability

Lanner's RS12-38800 is the amalgamation of 20 years experience in rackmount chassis design. By designing the chassis to fit the motherboard, Lanner offers a network storage solution with a perfectly-fitted, slim form. Compared to chassis' from generic manufacturers, Lanner offers the latest in easy to service technology, including replaceable drives, power supply, motherboard and fans.

### Thermal Management

Lanner understands the importance of thermal management to prolong the life span of electronics. Internal components and mechanics are designed together to allow for maximum cooling. Because the RS12-38800 is designed from the ground up by a team of engineers, thermal considerations have been carefully considered and designed into the final product for continual stable operation.



FEATURE	DESCRIPTION	
<b>Form Factor</b>	3U Rackmount	
<b>Platform</b>	Processor	Supports two Intel Dual/Quad Core Xeon Processors up to 3.0GHz, LGA 771
	Chipset	Intel Blackford 5000P + 6321ESB
	Front Side Bus	1333/1066 MHz
	Max Speed	3GHz
	Embedded Accelerator	Cavium CN1010 (optional)
<b>System Memory</b>	Technology	Dual-channel DDR2 FBDIMM 667/533 MHz
	Max Capacity	32GB
	Socket	240P DIMM x 8
<b>OS Support</b>	Linux Redhat 9.0, Fedora1, 2, 3, WindowsXP	
<b>Storage</b>	HDD Bay(s)	12 x 3.5" swappable SATA/SAS HDD trays
	Storage Interface	SAS/Serial ATA x 12, CompactFlash (type II) x 1
	RAID	Optional
<b>Networking</b>	No. of ports (Max)	12
	Controller	See module specifications
	No. of module bays	3
<b>I/O Interface</b>	Console	RJ45 x 1
	USB 2.0	2
<b>Expansion</b>	PCI-E	PCI-E (x4) x 1 (rear)
<b>Cooling</b>	Processor	2U CPU active heatsink
	System	Cooling fans x 2 (swappable) with Smart Fan
<b>Environmental Parameters</b>	Temperature, ambient operating / storage	0°C ~ 40°C / -20°C~70°C
	Humidity (RH), ambient operating / non-operating	5 ~ 90%, non condensing 5 ~ 95%, non condensing
<b>Miscellaneous</b>	LCD Module	1 x LCD, green & yellow STN, 54mm x 14.4mm, 2 x 20 Character, supports standby, backlit while operating
	Watchdog	Yes
	Internal RTC with Li Battery	Yes
<b>Physical Dimensions</b>	Dimensions (WxHxD)	610mm x 442mm x 130mm (24" x 17.4" x 5.12")
	Weight	38 kg (83.8 lbs)
<b>Power</b>	Type / Watts	N+1 Redundant 950W
	Input	AC 90~264V at 47~63Hz
	Output	+5V 30A, +12V 32A, +3.3V 0-24A, +5Vsb 2A, -12V 0.5A
<b>Approvals &amp; Compliance</b>	CE Emission, FCC Class A, RoHS	

ORDERING INFORMATION	
RS12-38800	12-bay dual CPU Xeon network storage and communications appliance
RS12-38800A	12-bay dual CPU Xeon network storage and communications appliance with Cavium CN1010 security accelerator onboard
Additional Cards	NSR-38800: PCI-E x 4 Riser Card

#### Ordering Information

Compatible Network Modules	NCM-IG407A: 4 ports Gigabit RJ-45 with 2 pair bypass NCM-IG407B: 4 ports Gigabit RJ-45 NCM-IG407C: 2 ports Gigabit RJ-45 with 1 pair bypass NCM-IG407D: 2 ports Gigabit RJ-45 NCM-IG411A: 4 ports Gigabit SFP NCM-IG411B: 2 ports Gigabit SFP NCM-IG208A: 2 ports Gigabit SFP(1000Base-SX) with 1 pair bypass NCM-IG208B: 2 ports Gigabit SFP(1000Base-LX) with 1 pair bypass NCM-IG419A: 2 ports 10G SFP+
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Status Screen



Quad Core Xeon  
5100/5200/5300/5400



Expansion Slots



Redundant  
Power Supply



12 SATA II Drive Bays



Add on Modules



Customizable  
Faceplates

#### About Lanner

Founded in 1986 and publicly listed (TAIEX: 6245) since 2003, Lanner Electronics Inc. is an ISO 9001 certified designer and manufacturer of reliable, frontline security, storage and applied computing platforms and solutions. With headquarters in Taipei, Taiwan and branches in the US and China, Lanner is uniquely positioned to deliver custom technical solutions with localized, value-added service.

#### Contact information

Lanner Electronics Inc  
7F, 173, Section 2 Datong Road  
Sijih City, Taipei County 221, Taiwan

**T** +886 2 86926060

**F** +886 2 86926101

**E** sales@lannerinc.com

**W** www.lannerinc.com



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