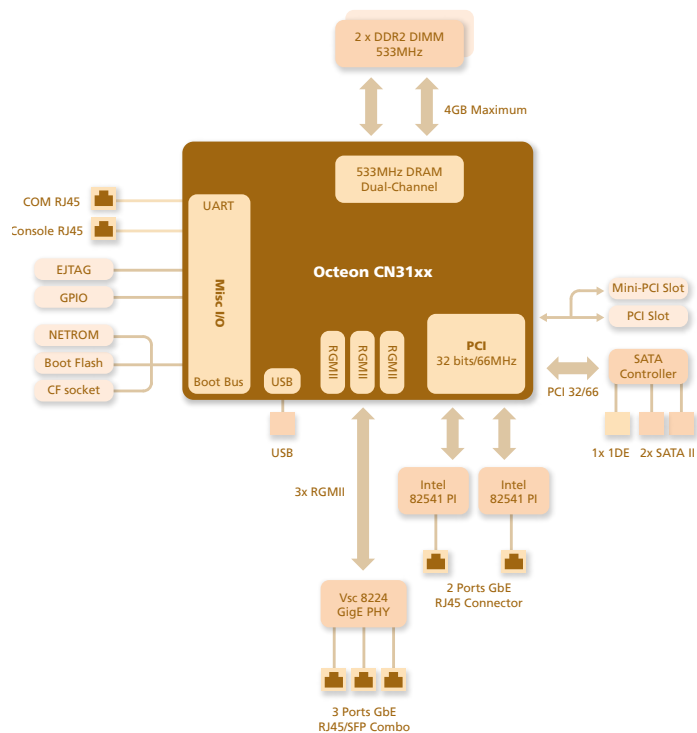


FEATURE	DESCRIPTION		
Form Factor	1U Rackmount		
Platform	Processor	OCTEON CN3120-SCP (supports full range of CN31xx series processors)	
	Max Speed	500MHz	
	Processor Cores	1-2	
	Instructions per Second (Max)	2.0G	
	Encryption Engine	Yes	
	Networking Engine	Yes	
	De/compression Engine	Optional (EXP, NSP only)	
	QoS Engine	Yes	
System Memory	Technology	DDR2 533MHz (dual Dimms) DDR2 400MHz (non-ECC)	
	Max Capacity	Supports registered ECC 4GB	
	Socket	240P DIMM x 2	
	OS Support	Linux, MontaVista Linux, Wind River VxWorks	
	Storage	HDD Bay(s)	3.5" x 1
		Storage Interface	Serial ATA x 2, IDE x 1 CompactFlash (type II) x 1
NOR Boot Flash		16MB	
Networking	No. of ports (Max)	3 GbE/Fibre combo ports (RJ45 x 3, SFP x 3) 2 PCI-bus GbE ports (RJ45 x 2)	
	Controller	Vitesse VSC8224 (Quad GigE PHY) Intel 82541 PI GbE (Optional Intel 82551QM FE)	
I/O Interface	Console	RJ-45 x 2	
	USB 2.0	1	
Expansion	PCI x 1, Mini-PCI x 1		
Cooling	Processor	CPU active heatsink	
Environmental Parameters	Temperature, Ambient Operating	0~40°C	
	Temperature, Ambient Storage	-20~70°C	
	Humidity (RH), Ambient Operating and Non-Operating	5% ~ 95%, non condensing	
Miscellaneous	Watchdog	Reset Control	
	Internal RTC	Yes	
Physical Dimensions	Dimensions (WxHxD)	431x44.4x273 mm (16.97x1.7x10.7 in)	
	Weight	5 kg (11 lbs)	
Power	Type / Watts	1U ATX SPS / 180W	
	Input	AC 100~240V@50Hz~60Hz	
	Output	+5V 12A, +3.3V 16.8A, +12V 10A, -12V 0.8A, +5Vsb 2A	
Approvals & Compliance	CE Emission, FCC Class A, RoHS		
Ordering	System	MR-550A-3120-500-SCP	



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MR-550 Platform Processor Architecture



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 U.S. and China, Lanner is uniquely positioned to deliver custom technical solutions with localized, value-added service.

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MR-550 OCTEON Powered Security Appliance

A multi-core MIPS64 platform with embedded encryption, networking and TCP acceleration engines

The Lanner MR-550 utilizes Cavium's OCTEON CN3120 multi-core MIPS64 SoC processors to deliver an intelligent network security appliance with integrated security acceleration engines. Supporting the full range of CN31xx processors, the MR-550 scales from hundreds of Mbps to 2Gbps, providing a versatile platform for next generation products.

Available with one or two MIPS64 cores on a single chip, the MR-550 integrates next-generation networking I/O along with advanced security and application hardware acceleration. Security hardware acceleration in the CN3120 implements the latest set of algorithms, including AES-GCM and SHA-2 (up to SHA-512) to enable future-proof designs.

The Lanner MR-550 also integrates essential and unique hardware acceleration for intelligent networking, including TCP acceleration, QoS acceleration and network packet acceleration. Supported by an industry-standard software toolchain and operating systems, the MR-550 offers a 3x+ performance, power, and real estate value proposition over alternatives.

Extensive Networking Interfaces

Deploy our base product with five Gigabit Ethernet ports or customize with up to three SFP Connectors.

Multi-core Processors

The OCTEON CN31XXX family of Multi-core MIPS64 processors targets intelligent networking.

Intelligent Security

Unique hardware acceleration implements the latest set of algorithms to enable future-proof designs.

Validated OS Partners

Work with one of our existing software partners to reduce your development time.

Customized Exterior

Take advantage of Lanner's extensive industrial design experience and customize this appliance to meet your unique branding requirements.

