

MRX-CN56 Cavium Network Processor Module

PCI Express slot-in security acceleration module for Lanner FW-8800 series network appliance platforms

Unique Modular Design

Swappable Network Port Modules

Network modules provide flexibility by enabling easy replacement or upgrades via front-facing module bays.

Lanner's unique modular system design allows for flexible integration of a wide variety of network port options, including copper and fiber gigabit, 10 gigabit, and bypass ports in a wide range of configurations.

The MRX-CN56 takes this modular design concept to the next level, by allowing easy replacement of a network module with a Cavium CN5650 network processor module.

Virtual CPU

The Cavium CN5650 MIPS64-based processor supports up to 32 tightly integrated hardware threads to optimize throughput and reduce latency, offloading packet processing from the communications appliance.

Integrated Autonomous Security Acceleration Engine (SAE)

Completely offloads encryption/decryption and authentication-related hashing operations from the central processing cores.

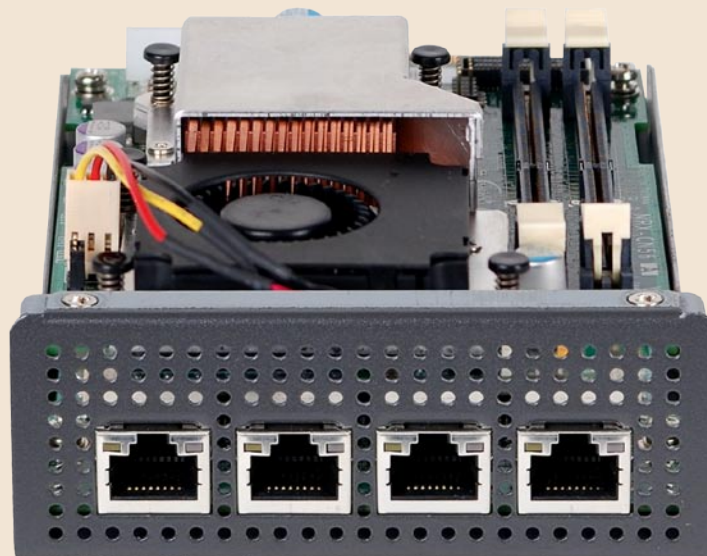
Extensive Integration

The MRX-CN56 network processor module is designed to be slotted into any Lanner FW-8800 series network application platform to provide enhanced Cavium packet acceleration without the need for a complete system redesign.

The MRX-CN56 is designed for slot-in compatibility with the latest generation Lanner FW-8892, FW-8891 and FW-8860 platforms.

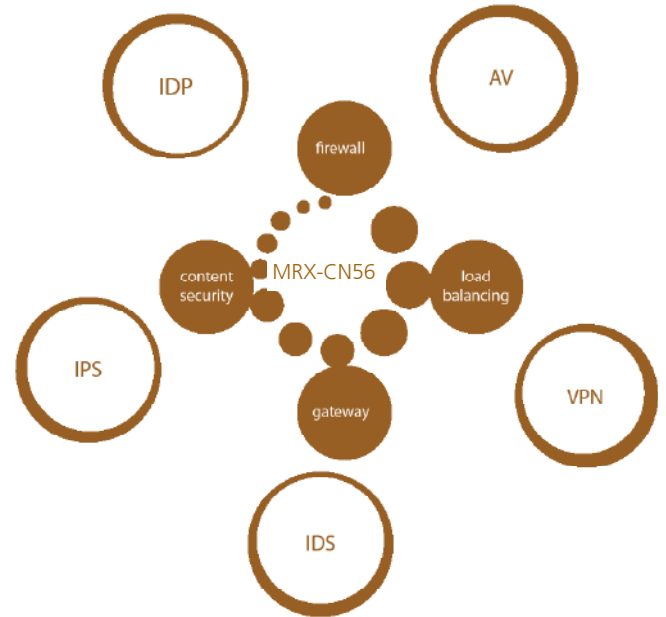
FW-8800 Series Network Application Platforms

The FW-8800 series provides a range of platform options from 1U single CPU Core 2 Duo/Quad based platforms to 2U dual Xeon 5500 platforms.



FEATURE	DESCRIPTION	
Form Factor	Slot-in Module	
System	CPU	OCTEON CN5650-750MHz Series
	Chipset	1 x Marvell 88E1145 Quad GigE PHY 1 x GMT G781 Thermal Sensor 1 x Serial EEPROM (24C08) for Board ID & MAC
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System Memory	Technology	DDR2 533/667MHz
	Socket	Mini-DIMM x 2
Ethernet Interface	Ports	4 x RJ45 GbE ports
	Bypass	1 pair (top)
	Controller	Marvell 88E1145
Storage	SSD	1 x 128Mb Flash (16Mbyte) SPANSION
	HDD	-
Storage	SATA	3
Expansion	PCI Express	1 x PCI-E (x4) Golden Finger
	XAUI	1 x XAUI Connector
I/O Interface	1 x 2 * 5 Console Pin Header	
Power Connector	1 x 4P Power Connector (12V & 5V)	
Cooling	Fan Connector	1 x fan connector (3 pin wafer)
Miscellaneous	RTC	Internal RTC with Li battery
	System Fan	1
	LED	4 x RJ45 LEDs
Physical Dimensions	Board Dimensions	194 x 95 mm (L x W)
	Enclosure Tray	187.5 x 100.5 x 38.8 mm (L x W x H)
Environmental Parameters	Operating Temp.	0°C ~ 40°C
	Storage Temp.	-20°C ~ 70°C
	Humidity	5% ~ 95% RH, non-condensing
Approvals & Compliance	CE, FCC Class A	
Ordering	MRX-CN56	4 port GbE Network Processor Module with Cavium CN5650-750MHz Security Acceleration Processor

The MRX-CN56 is perfectly suited for a wide range of high-performance network communications applications.



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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