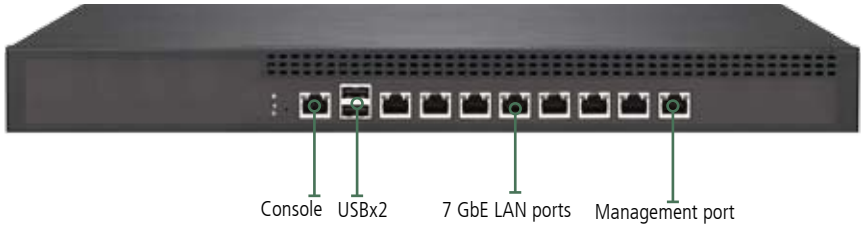
MR-631

Rackmount Network Processor Platform with Freescale P2041 CPU



Features

Compact Rackmount 1U Design
Engineered for applications with limited space, this product has dimensions that permit deployment in small cabinets, machinery, and almost any place necessary. Despite its compact size, it has 7 GbE ports and 1 GbE management port.

LAN Bypass
MR-631 support 1 pair LAN Bypass function. Bypass ports allow users to have uninterrupted network traffic even if a single in-line appliance is shut down or is hung.

Management port
MR-631 includes one management port for in-band management and out-of-band remote management.

Freescale QorIQ P2041 CPU
Freescale QorIQ P2041 quad-core processor targets UTM security appliances and delivers up to 10Gbps performance in less expensive form factors such as the 1U chassis. The P2041 combines high-end multicore processing engines with features such as hardware virtualisation, cryptography and deep packet inspection technology in a single-chip system. In addition, the P2041 operates at 12W power.

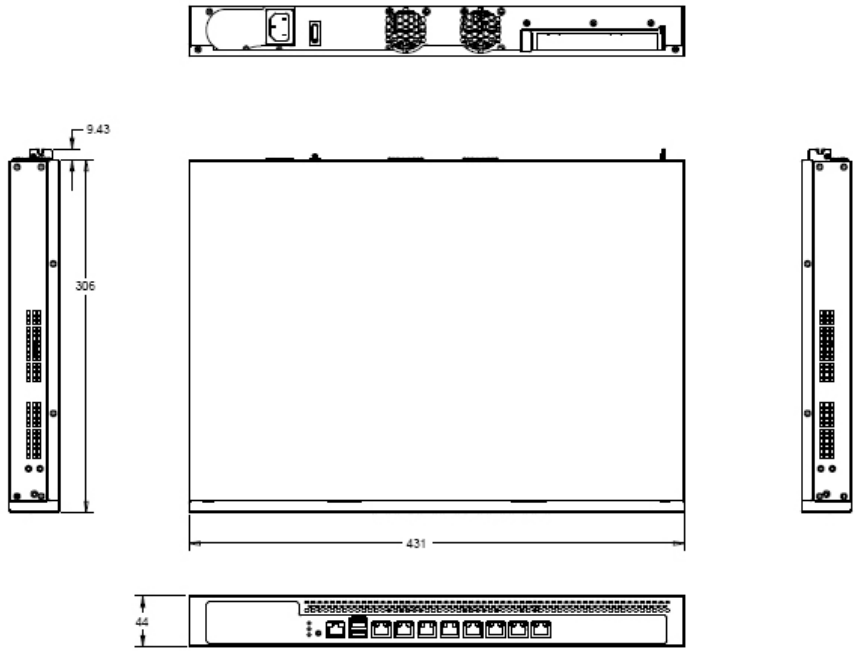
PCI Extension Slots
Equipped with standard PCI slots, this unit can accept 3rd party PCI cards for customized applications.

ECC Memory Support
MR-631 supports Error-Correcting Code (ECC) memory technology, a server-grade memory technology that can identify and correct memory corruption automatically. With ECC, system performance is more secure and stable.

Real Time Clock with LI Battery
All Lanner network appliances feature a real time clock that keeps ticking no matter if it's on or off with the help of a LI battery.

Watchdog
The embedded watchdog monitors the system so that it can automatically trigger a reset if software hangs. This is an essential feature of a network appliance.

Dimensions: 431 x 44 x 306mm



Preliminary Specifications

Form Factor		Rackmount
Platform	Processor Options	Freescale P2041 1.5GHz quad-core CPU
OS Support		Linux Kernel 2.6 or above
Flash Memory	Boot Flash	2MB NOR Flash memory for booting
	Extra Flash	2Gbyte Nand Flash (Optional)
System Memory	Technology	DDR3 1200 MHz DIMM with ECC support
	Max. Capacity	8GB
	Socket	2
Storage	HDD Bays	1 x 2.5" HDD kit
	CF/SD	1 x Type II CompactFlash
Networking	Ethernet Ports	8x GbE RJ-45 Switch ports
	Bypass	1 pair
	Controllers	1x Switch Vitesse VSC7420-01
	Ethernet Modules	N/A
	Management Port	1x Marvell 88E1111
I/O Interface	Reset Button	Yes
	Console	1 x RJ45
	USB	2 x USB 2.0
Expansion	PCIe	1x PCI-E *4 golden finger
	PCI	N/A
Cooling	Processor	Passive heatsink
	System	2x Cooling Fan
Environmental Parameters	Temperature, ambient operating / storage	0 ~ 40° C / -20~70° C
	Humidity (RH), ambient operating / ambient non-operating	5~90%, non-condensing / 5~95%, non-condensing
Miscellaneous	LCD Module	N/A
	Watchdog	Yes
	Internal RTC with Li Battery	Yes
Physical Dimensions	Dimensions (WxHxD)	431 x 44 x 306mm
	Weight	TBD
Power	Type / Watts	150W Single Power Supply
	Input	110~240V AC
Approvals and Compliance		CE Emission, FCC Class A, RoHS

Ordering Information

MR-631A	Freescale P2041 + 7 GbE LAN port + 1 GbE Mgmt. port, with 1 pair LAN Bypass