MR-301

RISC Based Fanless Network Appliance with Marvel Shiva NPU

1 x GbE RJ45 For ADSL Connection

Console

1 x USB

5 x GbE RJ45 switch ports
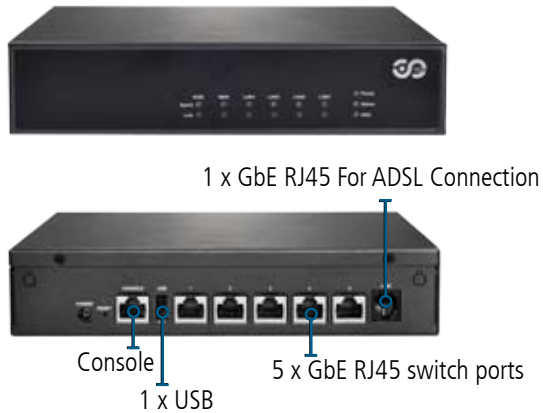
Features

Low Power RISC Architechure

Save on energy bills while you process more network packets with the Marvell 88F6281 Processor at 1.2G. Thet MR-301features a unified 256KB 4-way set associative L2 cache, 32-bit and 16-bit RISC architecture, 64-bit internal data bus and it is compliant with ARMv5TE architecture.

High Network Throughput

The MR-301 delivers fast networking though five Gbe (RJ-45) ports through RGMII GbE PHY. Its standard configuration comes with 4 LAN and 1 WAN.

Designed for both home use and the SMB market segments; ideal applications for the MR-301 include intelligent broadband networking, control plane, storage and wireless applications in next-generation equipment from 100 Mbps to 1Gbps thoughput applications.

Expansive I/O interface and Internal Storage

An internal 2.5" HDD, CF Socket, USB 2.0 ports, Mini-PCIe and console connection options are available, guaranteeing that all hardware requirements will be met.

### Small form factor for flexible deployment

Measuring only 21cm wide and 19cm deep, the MR-301 can be deployed virtually anywhere. Its space-saving design offers flexibility and cost savings while maintaining the high throughput and availability required for network security, acceleration and other network applications.

The MR-301's small form factor and low heat generation make it a perfect solution for network application deployment with limited space.

Dimensions: 210 x 44 x 190 mm

210

44

190
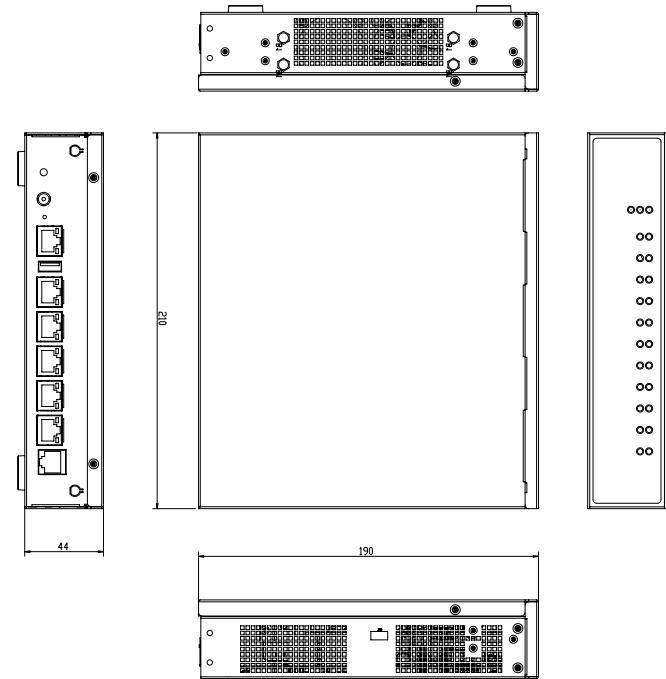
Specifications

Form Factor		Desktop
Platform	Processor Options	Marvell Shiva SOC 88F6281 1.2G (1.5G Max)
OS Support		Linux OS (Kernel version depends on BSP)
Flash Memory	Boot Flash	512Mbit NAND Flash
	Extra Flash	N/A
System Memory	Technology	DDR2 800 MHz 512MB/1GB
	Max. Capacity	1GB
	Socket	Onboard
Storage	HDD Bays	1 x 2.5" (Optional)
	CF/SD	Optional
Networking	Ethernet Ports	5 x GbE RJ45 switch ports 1 x GbE RJ45 port for internal ADSL connection
	Bypass	N/A
	Controllers	Marvell 88E6161 GbE switch Marvell 88E1116
	Ethernet Modules	N/A
	Management Port	N/A
I/O Interface	Reset Button	Yes
	Console	1 x RJ45
	USB	1 x USB 2.0
Expansion	PCIe	Either 1 x Mini-PCIe, or 1 x PCI-E golden finger
	PCI	N/A
Cooling	Processor	Passive heatsink
	System	1 x cooling fan
Environmental Parameters	Temperature, ambient operating / storage	0 ~ 40° C / -20~70° C
	Humidity (RH), ambient operating / ambient non-operating	5~95%, non-condensing
Miscellaneous	LCD Module	N/A
	Watchdog	Yes
	Internal RTC with Li Battery	Yes
Physical Dimensions	Dimensions (WxHxD)	210 x 44 x 190 mm
	Weight	1.2 kg
Power	Type / Watts	60W power adapter
	Input	AC 100~240V
Approvals and Compliance		CE Emission, FCC Class A, RoHS

Ordering Information

MR-301	Marvell SOC 1.2GHz, 512MB DDR2, 128MB NAND Flash