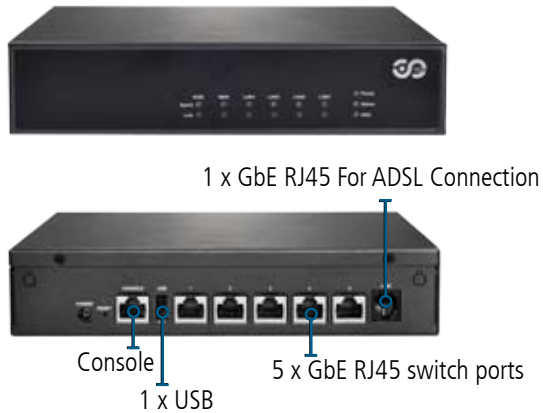


# MR-301

## RISC Based Fanless Network Appliance with Marvel Shiva NPU



### Features

#### Low Power RISC Architecture

Save on energy bills while you process more network packets with the Marvell 88F6281 Processor at 1.2G. The MR-301 features 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 through 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 throughput applications.

#### Expansive I/O interface and Internal Storage

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

#### Small form factor for flexible deployment

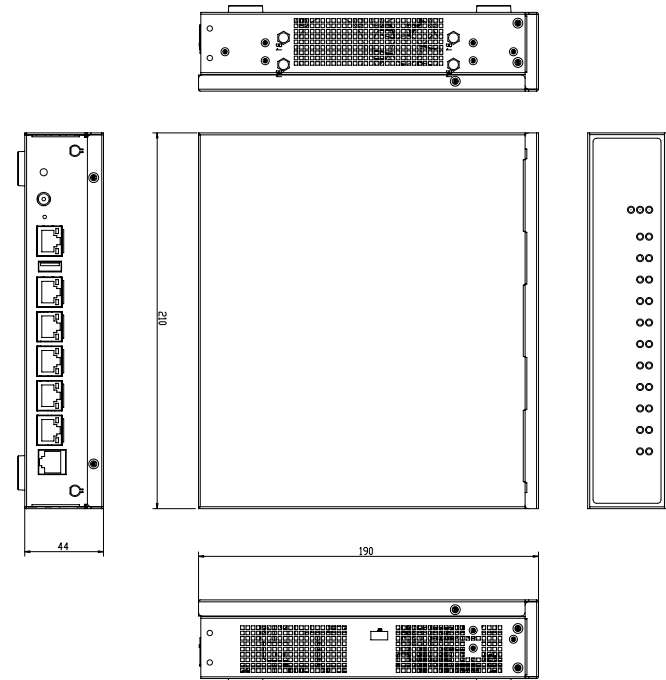
Measuring only 21cm wide and 19cm deep, the MR-301 can be deployed virtually anywhere. Its

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



## Specifications

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

## Ordering Information

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