

# PUZZLE-A001

1U Rackmount Network Appliance with AMD EPYC™ Embedded 3000 series processor, 1 NMS & 2 PCIe x4 slots



## Features

- » AMD EPYC™ Embedded 3000 series processor High-Performance CPU System on Chip
- » Support 8 x GbE RJ-45 via BCM 5720, 4 x 10 GbE SFP+ and IEI Networking Module
- » Support open source software, such as [pfSense®](#) and [OPNsense®](#).
- » 2 x 288-pin DIMM, 2 x DDR4 2666 MHz, UDIMM Up to 64GB / RDIMM Up to 128GB
- » 1 x RJ-45 Console, 2 x USB 3.1 Gen 1 (5Gb/s), LCM
- » 2 x 2.5" SATA 3.0 drive bay, 1 x M.2 B-Key (SATA 3.0, USB 3.2 Gen 1 (5Gb/s)), 1 x PCIe Mini card (PCIe 3.0, USB 2.0)
- » Support two PCIe x4 slots
- » Redundant PSUs

## Specifications

System	
CPU	AMD EPYC™ Embedded 3201 processor, 8C/8T, up to 3.10 GHz
	AMD EPYC™ Embedded 3151 processor, 4C/8T, up to 2.90 GHz
Chipset	Integrated in CPU
Memory	4 x DDR4 2133/2666 MHz ECC or non-ECC UDIMM/ RDIMM
Memory Max.	UDIMM Up to 64GB
	RDIMM Up to 128GB
Cooling method / System Fan	4 x Cooling Fans with Smart Fan
Physical Characteristics	
Rack Height	1U
Dimensions (LxWxH) (mm)	426x430x44.2
Net Weight	7 kg
Storage	
Storage	2 x 2.5" SSD/HDD Bay support SATA 3.0 (6 Gbps)
	1 x M.2(NGFF) 2260/3042 B key (SATA and USB 3.2 Gen 1 (5Gb/s)) Support SATA SSD and 4G LTE module
I/O Interface	
Ethernet	4 x SFP+ 10 GbE SFP+ ports(Integrated in CPU)
	8 x LAN GbE RJ45 LAN ports (Broadcom BCM5720)
I/O Interface	1 x External RS-232 Console
	2 x External USB 3.2 Gen1x1 5Gb/s
	1 x Internal USB 3.2 Gen1x1 5Gb/s
	4 x Internal USB 2.0
Expansion	2 x PCIe x4 PCIe 3.0 x4 (FHHL) slot
	1 x PCIe mini Card Slot PCIe 3.0, USB 2.0
Power	
Power Supply	300W, 100V~240V (Redundant power)
Environment	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 75°C (-4°F ~ 167°F)
Humidity	5% ~ 90% non-condensing

Certifications	
Safety & EMC	CE / FCC
OS Support	
OS Support	Linux Ubuntu 18.04.04
	CentOS 7/ Red Hat/Fedora EPEL

## Ordering Information

PUZZLE-A001-SO3/16G/R-R10	1U Rackmount Network Appliance with AMD EPYC™ Embedded 3151 processor, 16GB DDR4, two 256GB SSD, four 10 GbE SFP+, eight 1GbE, one PuIM, two PCIe expansion, Redundant Power, RoHS
PUZZLE-A001-SO2/16G/R-R10	1U Rackmount Network Appliance with AMD EPYC™ Embedded 3201 processor, 16GB DDR4, two 256GB SSD, four 10 GbE SFP+, eight 1GbE, one PuIM, two PCIe expansion, Redundant Power, RoHS

## Packing List

» 2 x Power cord	» 2 x Rack mounting ears
» 6 x Screws for rack mounting ears	» USB to console cable (Option)
» RS-232 to console cable (Option)	» Slide rail (Option)