

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 |

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

Ordering Information

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|---------------------------|--|
| 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) |