

PUZZLE-A002

1U Rackmount Network Appliance with AMD R-Series RX-421ND processor, Support 6 x GbE RJ45



Features

- » AMD R-Series RX-421ND quad-core 2.1 GHz processor
- » 2 x DDR4 2400MHz ECC/Non-ECC UDIMM, up to 32 GB
- » Support 6 x GbE RJ45 via BROADCOM BCM 5720
- » 1 x RJ45 Console, 2 x USB 3.1 Gen 1 (5Gb/s), 2 x USB 2.0, LCM
- » 2 x 2.5" SATA 3.0 drive bay, 1 x PCIe Mini card (PCIe 2.0, USB 2.0, Micro SIM slot)
- » Support two PCIe x4
- » Support open source software, such as [pfSense®](#) and [OPNsense®](#).

[Learn more about PUZZLE series network appliances](#)

Specifications

| System | |
|-----------------------------|---|
| CPU | AMD R-Series RX-421ND processor, 4C, up to 3.4 GHz |
| Chipset | Integrated in CPU |
| Memory | 2 x DDR4 2400MHz ECC/Non-ECC UDIMM |
| Memory Max. | Up to 32GB |
| Cooling method / System Fan | 4 x Cooling Fans with Smart Fan |
| Physical Characteristics | |
| Rack Height | 1U |
| Dimensions (LxWxH) (mm) | 320x430x44.2 |
| Net Weight | 5kg |
| Storage | |
| Storage | 2 x 2.5" SSD/HDD Bay support SATA 3.0 (6 Gbps) |
| | 1 x eMMC 8 GB |
| I/O Interface | |
| Ethernet | 6 x LAN GbE RJ45 LAN ports (Broadcom BCM5720) |
| I/O Interface | 2 x External USB 3.2 Gen1x1 |
| | 1 x Internal USB 3.2 Gen1x1 USB3.0 TypeA |
| | 2 x Internal USB 2.0 |
| Expansion | 2 x PCIe x4 2 x PCIe 3.0 x4 (FHHL) slots |
| | 1 x PCIe mini Card Slot PCIe 2.0, USB 2.0, Micro SIM slot |
| | 1 x M.2(NGFF) 2230 M.2 A key (PCIe 2.0/ USB 2.0) |
| Power | |
| Input | 100 V ~ 240 V |
| Power Supply | 250W |
| 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/RoHS Compliant |
| OS Support | |
| OS Support | Linux Ubuntu 18.04.04 |
| | CentOS 7/Red Hat/Fedora EPEL |

Ordering Information

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|------------------------|--|
| PUZZLE-A002-MF1/8G-R10 | 1U Rackmount Network Appliance with AMD® RX-421ND processor, 8GB DDR4, one 256GB SSD, six 1GbE , two PCIe x4 expansion, RoHS |
| PUZZLE-A002-MF1-R10 | 1U Rackmount Network Appliance with AMD® RX-421ND processor, two DDR4 slots, and six 1GbE , two PCIe x4 expansion, RoHS |

Packing List

| | |
|-------------------------------------|---------------------------------|
| » 1 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) | |