

# PUZZLE-IN001

1U Rackmount Network Appliance with Intel® Xeon® E, 8th Generation Intel® Core™/Pentium®/Celeron® Processor, up to 2 NMS and 2 PCIe slots



## Features

- » Intel® Xeon® E, 8th Generation Intel® Core™/Pentium®/Celeron® Processor
- » Support 8 x GbE RJ45 via Intel® I211, and two PULM module slots
- » 2 x 288-pin Long DIMM, DDR4 2400MHz ECC & non ECC, up to 32GB
- » 1 x RJ45 Console, 2 x USB 3.2 Gen1, LCM
- » 2 x 2.5" SATA drive bay, 1 x M.2 B Key, 1 x PCIe mini
- » Support open source software, such as [pfSense®](#) and [OPNsense®](#).
- » Support PCIe x4 and PCIe x8 slot
- » Redundant PSUs
- » [Learn more about PUZZLE series network appliances](#)
- » [Buy IoT Devices & IoT Hardware | Azure Certified Device Catalog](#)

## Specifications

|                             |  |
|-----------------------------|--|
| System                      |  |
| CPU                         | Intel® Gen8 Xeon® E-2136 processor                     |
|                             | Intel® Gen8 Core™ i3-8100T processor                   |
| Chipset                     | Inte® C246   |
| Memory                      | 2 x DDR4 2400MHz ECC/Non-ECC UDIMM                     |
| Memory Max.                 | up to 32 GB  |
| 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) B key 2260/2280                          |
| I/O Interface               |  |
| Ethernet                    | 8 x LAN : GbE RJ45 (Inteli211-AT)                      |
| I/O Interface               | 2 x External USB 3.2 Gen1x1                            |
|                             | 4 x Internal USB 2.0 : Pin header                      |
|                             | 1 x Console port(s) : RJ45                             |
| Expansion                   | 1 x PCIe x8  |
|                             | 1 x PCIe x4  |
|                             | 1 x PCIe mini Card Slot : PCIe 3.0 & SATA 3.0, USB 2.0 |
| Other Features              |  |
| TPM                         | 1 x TPM 2.0 Pin header                                 |
| 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 / RoHS               |
| OS Support            |                               |
| OS Support            | Linux Ubuntu 16 & above       |
|                       | CentOS 7/ Red Hat/Fedora EPEL |
|                       | Microsoft Windows 10          |

## Ordering Information

|                        |   |
|------------------------|---|
| PUZZLE-IN001-i3T/R-R20 | 1U Rackmount Network Appliance with Intel® Gen8 Core™ i3-8100T processor, two DDR4 slots, and eight 1GbE , two PuLM slots , two PCIe expansion, Redundant   |
| PUZZLE-IN001-XE/R-R20  | 1U Rackmount Network Appliance with Intel® Gen8 Xeon® E-2136 processor, two DDR4 slots, and eight 1GbE , two PuLM slots , two PCIe expansion, Redundant Power, RoHS   |
| PUZZLE-IN001-R-R20     | 1U Rackmount Network Appliance support Intel® Gen8 Xeon®E3, Core™ i3, Pentium® or Celeron® processor, two DDR4 slots, and eight 1GbE , two PuLM slots with new screw hole design, 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)             |
| » CPU Heatsink (TDP:80W) (Option)   | » CPU Heatsink (TDP:35W) (Option) |
| » HDMI™ cable (Option)              |                                   |