

# PUZZLE-IN005

2U Rackmount Network Appliance support dual Intel® Ice Lake CPU



## Features

- Dual Intel® Ice Lake Xeon® scalable processors (up to 185W)
- 20 x DDR4 R-DIMM / LR-DIMM memory
- 8 network modules with PCIe Gen 4 x8 signal
- Intel® QuickAssist Technology
- 4 x 2.5" U.2 (PCIe x4) SSD compatible with SATA
- 1+1 1200W CRPS redundant power supply
- 4+1 hot-swappable system fans

## Specifications

		PUZZLE-IN005
Platform	Form Factor	2U
	CPU	Intel® Ice-Lake LGA-4189 Xeon® Scalable Processor
	Chipset	C627A
Memory	Memory Technology	DDR4 3200 MHz ECC RDIMM / LRDIMM
	Memory Capacity	Memory up to:1280GB (20 x 64GB)
	Memory Socket	20 x 288-pin DIMM
Network and Security	Network Acceleration and Security Function	<ul style="list-style-type: none"> <li>• Intel® AES New Instructions</li> <li>• Intel® QuickAssist Technology (Intel® QAT)</li> <li>• Intel® Virtualization Technology (Intel® VT)</li> <li>• Intel® Trusted Execution Technology (Intel® TXT)</li> </ul>
	TPM	1 x TPM 2.0 pin header
IPMI	IPMI Solution	1 x iRIS-2400 module
Networking	Ethernet IC	1 GbE NIC: Intel® i210-AT with NCSI support 1 GbE NIC: Intel® i219
	Ethernet Port	2 x 1GbE RJ-45 ports (1 x IPMI LAN)
	Network Module Slot	8 x Networking Module Slot
Expansion Slot	PCIe Slot	1 x PCIe Gen 4 x8 (FHHL) slot (single width)
	PCIe Mini Card Slot	N/A
	M.2	2 x M.2 2280 M key supporting PCIe Gen 3 x4 NVMe
Storage	Storage	4 x U.2 SSD drive bay compatible with SATA
	eMMC	N/A
	SD Card	N/A
External I/O	VGA	1 x VGA port
	USB	2 x USB 3.2 Gen 1 (5Gb/s) Type-A ports
	Console	1 x RJ-45 1 x USB Type-C
Internal I/O	HDMI	N/A
	USB	1 x USB 2.0 pin header
Power and Mechanical	Power Switch	1 x Power Switch
	Reset Button	1 x Reset Button
	Power Input	100 V ~ 240 V
	Type/Watt	Redundant power 1200W, 90V ~ 264V AC
	Processor Cooling	2 x Active CPU cooler
	System Cooling	5 x Cooling fans with smart fan
	Antenna Hole	N/A
Physical and Environmental	Storage Temperature	-20°C ~ 75°C (-4°F ~ 167°F)
	Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
	Operating Humidity	Relative humidity: 5% ~ 90% non-condensing
	Dimensions (W x L x H) (mm)	438 x 650 x 88
	Weight	23 kg
OS and Certifications	Certification	CE / FCC / RoHS
	Operating System	Linux 18.04 (CentOS, Red Hat, Ubuntu, etc.) Windows server 2019
Indicators	LCM	N/A
	LED	1 x Power LED, 1 x Storage LED, 1 x Alert LED

## Ordering Information

Part No.	Description
PUZZLE-IN005-R-R10*	2U Rackmount Network Appliance supports dual Intel® Ice-Lake-SP CPU, twenty DDR4 R-DIMM/LR-DIMM slots, two 1GbE (one supports BMC control), eight PuIM, one PCIe expansion, redundant power, without cooler, RoHS

\* A CPU heatsink must be purchased separately

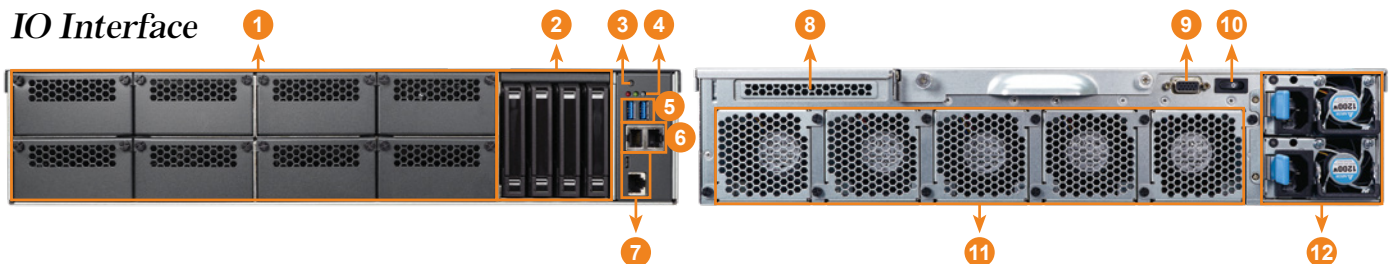
## Packing List

1 x USB to RJ-45 console cable	Rack mounting ears
2 x Power cord	Screws for rack mounting ears
Flat head screws (for 2.5" HDD)	

## Options

Item	Part No.	Description
Slide rail	45009-0018C0-00-RS	Sliding track, sliding track, AA68-5080PZZ1CV, Raw Material, 45009-0018XX, VER:00, RoHS
USB to console cable	32013-004000-100-RS	Round cable; LAN CABLE; FTDI console cable; 2; 1800MM; (A)USB A TYPE 4P MALE+PCB:FTDI_FT232RL; (B)RJ-45 8P8C; RoHS
CPU cooler	19100-000287-00-RS	Cooler module/Heat Pipe; HEATSINK:113*78*64mm, FAN:60*60*15mm; Standard; 00; TSM-002007-HS3; Aluminum plate+FIN Buckle+Heat Pipe*5; +Grease:TC5888+6025FAN+FAN cover+LGA4189*4; Nidec; H60T12BHA7-57T07; CCL; RoHS

## IO Interface



- 1 8 x IEI Networking Module slot
- 2 4 x 2.5" drive bay
- 3 Reset button
- 4 Power status  
HDD status  
Alert LED
- 5 2 x USB 3.2 Gen 1
- 6 1 x MGMT LAN  
1 x IPMI LAN
- 7 Console port  
1 x USB type C  
1 x RJ-45
- 8 PCIe expansion slot
- 9 VGA port
- 10 Power switch
- 11 5 x hot-swappable fan
- 12 Power inlet

## Dimensions (Unit: mm)

