

PUZZLE-IN004

1U Rackmount Network Appliance with Intel® Xeon® D Processor support 8 x GbE, 4 x 10GbE SFP+ and 1 PCIe x8 slot



Features

- Intel® Xeon D-2100 series processor (Skylake-D) with optional Intel® QAT
- Support eight GbE RJ-45 via Intel® I211-AT, four 10 GbE SFP+ and IEI networking module
- 8 x 288-pin RDIMM DDR4 2666MHz, RDIMM up to 256GB / LRDIMM up to 512GB
- 1 x RJ-45 Console, 1 x USB 3.2 Gen 1 (5Gb/s), 1 x USB 2.0, LCM
- 2 x 2.5" SATA drive bay, 2 x M.2 M key for nVME, 1 x PCIe Mini with SIM card
- Support one PCIe 3.0 x8 slot, one PuIM module slot
- Redundant PSUs

Specifications

		PUZZLE-IN004-XD1	PUZZLE-IN004-XD2	PUZZLE-IN004-XD3	PUZZLE-IN004-XD4	PUZZLE-IN004-XD5
Platform	Form Factor	1U				
	CPU	Intel® Xeon® D-2145NT processor 8-core, 11M cache, 1.90 GHz	Intel® Xeon® D-2146NT processor 8-core, 11M cache, 2.30 GHz	Intel® Xeon® D-2166NT processor 12-core, 16.5M cache, 2.00 GHz	Intel® Xeon® D-2177NT processor 19.25M cache, 1.90 GHz	Intel® Xeon® D-2187NT processor 16-core, 22M cache, 2.00 GHz
	Chipset	Integrated in CPU				
Memory	Memory Technology	DDR4 2133/2400MHz ECC DDR4 RDIMM/LRDIMM				
	Memory Capacity	RDIMM up to 256GB / LRDIMM up to 512GB				
	Memory Socket	8 x 288-pin DIMM				
Network and Security	Network Acceleration and Security Function	<ul style="list-style-type: none"> • Intel® AES New Instructions • Intel® Software Guard Extensions (Intel® SGX) • Intel® Memory Protection Extensions (Intel® MPX) • Intel® Trusted Execution Technology 				
	TPM	1 x TPM 2.0 pin header				
Networking	Ethernet IC	1 GbE NIC: Intel® i211-AT 10 GbE: Intel® X722 integrated in CPU				
	Ethernet Port	4 x 10 GbE SFP+ / 8 x 1GbE RJ-45 LAN ports				
	Network Module Slot	1 x PuIM module slot				
Expansion Slot	PCIe Slot	1 x PCIe 3.0 x8 (FHHL) slot (double width)				
	PCIe Mini Card Slot	1 x PCIe Mini (PCIe + USB 2.0) with SIM card				
	M.2	1 x M.2 M key 2260/2280 Support PCIe 3.0 x4 nVME				
Storage	Storage	2 x 2.5" SATA HDD/SSD bay support SATA 3.0 (6 Gbps)				
	eMMC	N/A				
	SD Card	N/A				
External I/O	USB	1 x USB 2.0 / 1 x USB 3.2 Gen 1				
	Console	1 x RJ-45				
Internal I/O	HDMI	N/A				
	USB	N/A				
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 300W, 90V~264V AC				
	Processor Cooling	1 x Passive CPU heatsink				
	System Cooling	3 x Cooling fans with smart fan				
	Antenna Hole	1 x Antenna hole				
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)	430 x 426 x 44.2				
	Weight	7 kg				
OS and Certifications	Certification	CE/FCC				
	Operating System	Linux Ubuntu 18.04.04 CentOS 7 / Red Hat / Fedora EPEL Microsoft Windows 10				
Indicators	LCM	LCM, 2 buttons				
	LED	Power status, Storage status, Alert LED				

Ordering Information

Part No.	Description
PUZZLE-IN004-XD1/32G/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2145NT Processor, four 8GB DDR4, two 240GB SSD, eight 1GbE, four 10 GbE, one PuIM module and one PCIe expansion, RoHS
PUZZLE-IN004-XD2/32G/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2146NT Processor, four 8GB DDR4, two 240GB SSD, eight 1GbE, four 10 GbE, one PuIM module and one PCIe expansion, RoHS
PUZZLE-IN004-XD3/32G/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2166NT Processor, four 8GB DDR4, two 240GB SSD, eight 1GbE, four 10 GbE, one PuIM module and one PCIe expansion, RoHS
PUZZLE-IN004-XD4/64G/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2177NT Processor, four 16GB DDR4, two 480GB SSD, eight 1GbE, four 10 GbE, one PuIM module and one PCIe expansion, RoHS
PUZZLE-IN004-XD5/64G/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2187NT Processor, four 16GB DDR4, two 480GB SSD, eight 1GbE, four 10 GbE, one PuIM module and one PCIe expansion, RoHS

Packing List

	PUZZLE-IN004-XD1/32G/R-R10	PUZZLE-IN004-XD2/32G/R-R10	PUZZLE-IN004-XD3/32G/R-R10	PUZZLE-IN004-XD4/64G/R-R10	PUZZLE-IN004-XD5/64G/R-R10
Power cord	2	2	2	2	2
Rack mounting ears	2	2	2	2	2
Screws for rack mounting ears	6	6	6	6	6
USB to console cable	1	1	1	1	1
RS-232 to console cable	option	option	option	option	option
Slide rail	option	option	option	option	option

Options

Item	Part No.	Description
Slide rail	RAIL-B02	New rail kit for new 1U & 2U NAS: TVS-471U, 1253U, etc
Rack mounting ears for Slide rail	41020-0249P5-02-RS	WALL MOUNT BRACKET; WALL MOUNT BRACKET; Stamping die forming; PUZZLE Serial; PMS 296C; 41020-0249XX; PLATING; MOLD(M); SECC; VER:02; 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
RS-232 to console cable	32005-005100-100-RS	ROUND CABLE; RS-232/422/485; PUZZLE RS-232 Cable; 2; 500MM; 24AWG; (A) D-SUB 9P MALE+#4-40 Screw; (B)RJ-45 PLUG 8P8C; ONE PCS PKG; TC&C; RoHS

Dimensions (Unit: mm)

