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® Select Solutions for uCPE for CentOS and ADVA for Ensemble Harmony Ecosystem

» 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 2133 / 2667MHz, 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 2280 (PCIe x4), 1 x PCIe Mini with SIM card

» Support one PCIe 3.0 x8 slot, one PulM module slot

» Redundant PSUs

» Support open source software, such as pfSense® and OPNsense®.

» Learn more about PUZZLE series network appliances

» Buy IoT Devices & IoT Hardware | Azure Certified Device Catalog

» Read Solution Brief: IEI's PUZZLE-IN004-XD1 verified as Intel® Select Solutions for uCPE for CentOS

Specifications

Form Factor	
Form Factor	1U
System	
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 14-core, 19.25M Cache, 1.90 GHz
	Intel® Xeon® D-2187NT processor 16-core, 22M cache, 2.00 GHz
Chipset	Integrated in CPU
Memory	DDR4 2133/2667 MHz
Memory Max.	RDIMM up to 256GB
	LRDIMM up to 512GB
Cooling method / System Fan	4 x Cooling fans with smart fan
Physical Characteristics	
Dimensions (LxWxH) (mm)	426x430x44.2
Net Weight	7 kg
Storage	
Storage	2 x 2.5" SSD/HDD Bay : Support SATA 3.0 (6 Gbps)
I/O Interface	
Ethernet	4 x SFP+ : 10 GbE (Intel® X722 integrated in CPU)
	8 x LAN : GbE RJ-45 (NIC: Intel I211-AT)
I/O Interface	1 x External RS-232 : Console
	1 x External USB 2.0

	1 x External USB 3.2 Gen1x1
Expansion	1 x PCIe x8 : double width
	1 x PCIe mini Card Slot : (PCIe + USB 2.0) with SIM card
	2 x M.2(NGFF) M key 2280 (PCIe x4)
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	Relative humidity: 5% ~ 90% non-condensing
Certifications	
Safety & EMC	CE / FCC / RoHS
OS Support	
OS Support	Linux Ubuntu 18.04.04
	CentOS 7/ Red Hat/ Fedora EPEL
	Microsoft Windows 10

Ordering Information

PUZZLE-IN004-XD5/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2187NT Processor, eight 1GbE, four 10 GbE, one PulM module slot and one PCIe expansion, RoHS
PUZZLE-IN004-XD4/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2177NT Processor, eight 1GbE, four 10 GbE, one PulM module slot and one PCIe expansion, RoHS
PUZZLE-IN004-XD3/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2166NT Processor, eight 1GbE, four 10 GbE, one PulM module and one PCIe expansion, RoHS
PUZZLE-IN004-XD2/R-R10	1U Rackmount Network Appliance with Intel® Xeon® Intel Xeon D-2146NT Processor, eight 1GbE, four 10 GbE, one PulM module and one PCIe expansion, RoHS
PUZZLE-IN004-XD1/R-R10	1U Rackmount Network Appliance with Intel® Xeon® D-2145NT Processor, eight 1GbE, four 10 GbE, one PulM module and one PCIe expansion, 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)