

Status: Renamed to PNSR-5001

Migration options: This is a product model name change only. Customers will experience no change in functionality. The new product name is designed to better align the brand and value

APTNS-13181 is a 1U rackmount network appliance powered by Intel® Xeon® D-2700 Series Processors (formerly Ice Lake-D HCC), featuring up to 20 cores, and designed with three OCP NIC 3.0 network adaptors.

Portwell's products deliver.

Equipped with one of the most mainstream BMC chips, the AST2500 on-board, APTNS-13181 provides rich I/O elements, including a console port, two USB 3.2 Gen 1 ports, three USB 2.0 headers on-board, and an LCD display module with control buttons. The I/O interface also contains two LEDs for PSU power status and storage drive (HDD) status. Additionally, the APTNS-13181 supports two SATA 3.0 for 2.5" hard drives, one on-board M.2 M key, one M.2 B key for cellular modules, and one M.2 E key for WiFi module.

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SPECIFICATION	
CPU	Intel® Xeon® D-2700 Series Processors (formerly Ice Lake-D HCC) Supports 4 to 20 cores with TDP ranging from 65W to 118W
BIOS	AMI uEFI BIOS
System Memory	Total 8 DIMMs DDR4 2933 RDIMM, up to 64GB/DIMM DDR4 2933 LRDIMM, up to 128GB/DIMM DDR4 2666 ECC/Non-ECC UDIMM Up to 1024GB
Expansion	OCP NIC 3.0 cards - Slot 1: PCIe Gen4 x16 from CPU - Slot 2: PCIe Gen4 x16 from CPU - Slot 3: PCIe Gen3 x8 from HSIO 1x M.2 Key B 3042/3052 socket 1x M.2 Key E 2230 socket
Ethernet Ports	1x GbE RJ45 MGMT via Intel I210 1x GbE RJ45 IPMI BMC 4x 10GbE/25GbE SFP+/SFP28 (Max 100Gb throughput)
IPMI	AST2500 BMC
Storage Device	2x 2.5" SATA 3.0 HDDs/SSDs 1x M.2 Key M 2280 socket
Power	600W Redundant AC Power Supply
Dimension	435mm (W) x 524mm (D) x 44.34mm (H) 17.13" (W) x 20.63" (D) x 1.75" (H)

I/O	
Serial Port	1x RJ-45 Console port
USB	2x USB 3.2 Gen 1 ports 3x USB 2.0 headers on-board
LCM	RS-232, 16x2 characters
Display	LCD Panel at front I/O VGA Header at rear I/O
LED	1x Power LED 1x HDD LED

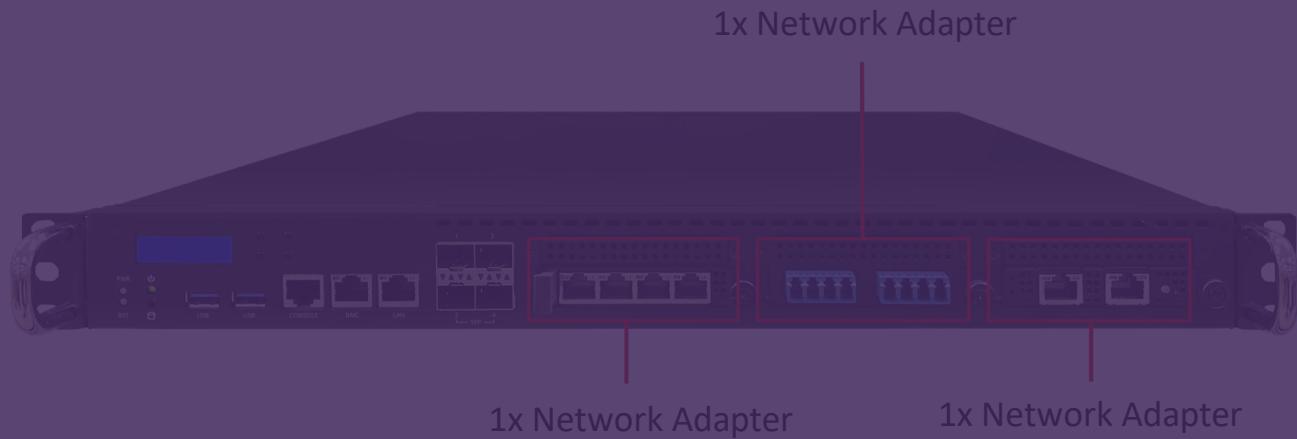
OPERATION	
Operating Environment	0~40°C (32~104°F)
Storage Environment	-10~70°C (14~158°F)
Humidity	5~95% RH, non-condensing
Certification	CE/FCC



*All information provided is subject to change without notice. Last updated: October 13, 2023

NIC Configuration

1U Rackmount



ORDERING GUIDE

Product	P/N	Description
Status: Renamed to PNSR-5001		1U Network Appliance with Intel® Xeon® D-2700 Series SoC
Optional NICs	P/N	Description
APTNC-CY4R-BP APTNC-OX4S-BP	18-810004-Z002 18-810002-Z002	CCP NIC3-0 Network Module with 2x 10GbE Copper Ports & Bypass Function Network Module with 4x 10GbE SFP+ & Bypass Function

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