PNSR-5000

1U Network Appliance Based on Intel® Xeon® D-1800/D-1700 Series SoC, Featuring On-board 6x 2.5GbE RJ45 with Bypass and 2x 25GbE SFP28

FEATURES

- Intel® Xeon® D-1800/D-1700 Series SoC
- 4x DDR4 2933MHz RDIMMs up to 256GB
- 6 x 2.5GbE Copper ports with 2 pairs bypass
- 2 x 25GbE SFP28 Fiber ports
- 1x PCIe Gen4 x16 or 2x PCIe Gen4 x8 slots for expansion LAN modules, optional OCP NIC 3.0 slot support
- 2x 2.5" HDD/SSD, 1x M.2 Key M 2280
- 2x M.2 Key B 3052 for 4G/5G/LTE module
- On-board TPM 2.0 for security

Icons: 2.5 GbE | 10 GbE | 25 GbE | Bypass | Fiber | DDR4 REG ECC | SATA 3.0 | 2.5 HDD | 3.5 HDD | PCIe 4.0 | USB 3.0 | M.2 2280 | M.2 3052

INTRODUCTION

PNSR-5000 is a 1U Rackmount network appliance powered by the Intel® Xeon® D-1800/D-1700 Series Processor (formerly Ice Lake-D LCC Refresh/Ice Lake-D LCC), featuring up to 10 cores, PCIe Gen 4 and more high speed I/Os.

The PNSR-5000 supports two channels DDR4 RDIMM/UDIMM (up to 2933MHz) and maximum memory capacity up to 256GB. With 16 PCI Express Gen 4 lanes, the PNSR-5000 can support 2 NIC modules, support multiple Ethernet module bays for flexible port configuration; such as 1/10/25/40 Gigabit fiber, Gigabit copper with BYPASS function or not. The OCP 3.0 and standard PCIe convertible slot design makes expansions more flexible and easier. PNSR-5000 also natively supports two 10/25GbE SFP+/SFP28 with up to 50 Gigabit throughput and six 2.5GbE copper on-board with BYPASS function.

The strong I/O elements of PNSR-5000 include a console port, two USB 3.2 Gen 1 ports, a Graphic LCD module with keypad (4 keys), LEDs for power/ HDD/ Bypass/ SFP28 ports. In addition, the PNSR-5000 also supports two 2.5" SATA HDDs/SSDs, on-board one M.2 2280 for network storage application and two M.2 3052 slots for 4G/5G/LTE wireless modules.

SPECIFICATION

CPU	Intel Xeon D-1800/D-1700 Series SoC
BIOS	AMI Aptio® BIOS
System Memory	Total 4 DIMMs (2DPC) DDR4 2933 RDIMM, up to 64GB/DIMM DDR4 2666 ECC/Non-ECC UDIMM
Capacity	Up to 256GB
Expansion	• 1x PCIe Gen4 x16 slot (2 x8 via riser card) or 1x OCP NIC 3.0 Gen4 x16 slot as option • 2x M.2 Key B 3052 sockets with SIM card slots for wireless module
Ethernet Ports	Total 8 Ethernet ports • 6x 2.5GbE copper via I225 with 2 pairs bypass • 2x 10/25GbE SFP+/SFP28 (Max 50Gbps throughput)
Storage Device	• 2x 2.5" SATA 3.0 HDD/SSDs • 1x M.2 Key M 2280 socket
Power	500W AT/ATX Power Supply
Dimension	436mm (W) x 328mm (D) x 44.34mm (H)

I/O

Serial Port	1x RJ-45 Console port
USB	• 2x USB 3.2 Gen 1 ports • 2x USB 2.0 headers on-board
LCD Panel	128x32/64 graphic, 2x16 characters
Display	1x HDMI connector at rear I/O
LED	• 1x Power LED • 1x HDD LED • 2x Copper bypass LEDs (Normal/ Bypass/ Open mode) • 4x SFP28 port LEDs (Link + Speed)

ENVIRONMENTAL

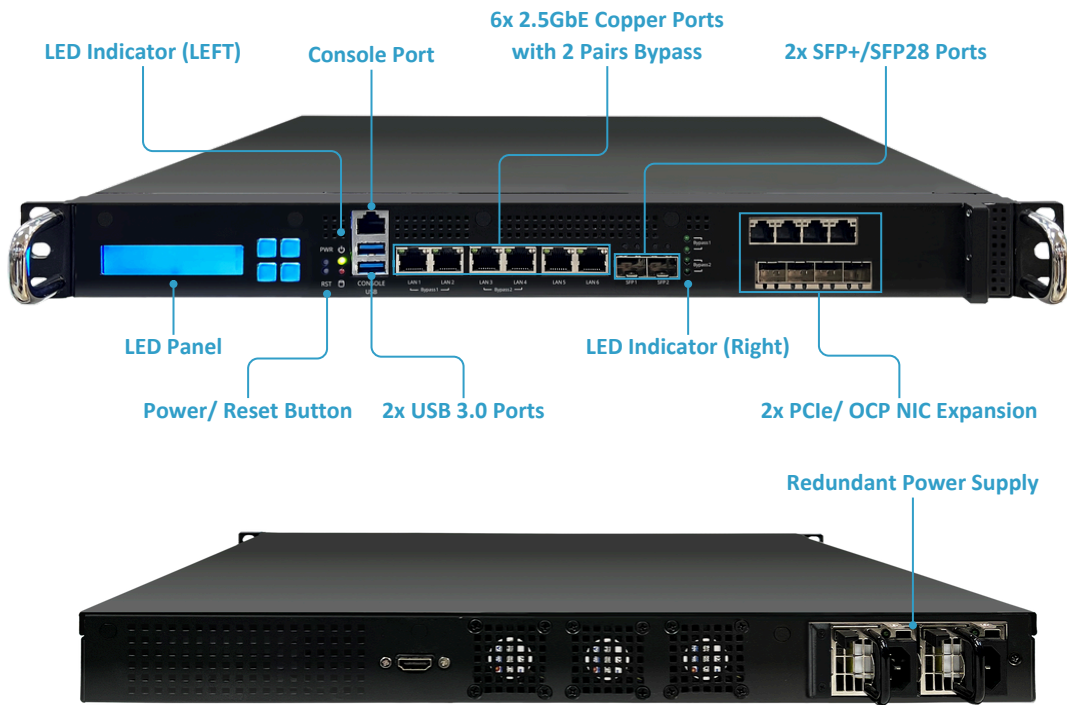|	
Operating Environment	0 ~ 40°C (32 ~ 104°F)
Storage Environment	-10 ~ 70°C (14 ~ 158°F)
Humidity	5 ~ 95% RH, non-condensing
Certification	CE/FCC

*All information provided is subject to change without notice. Last updated: May 02, 2024
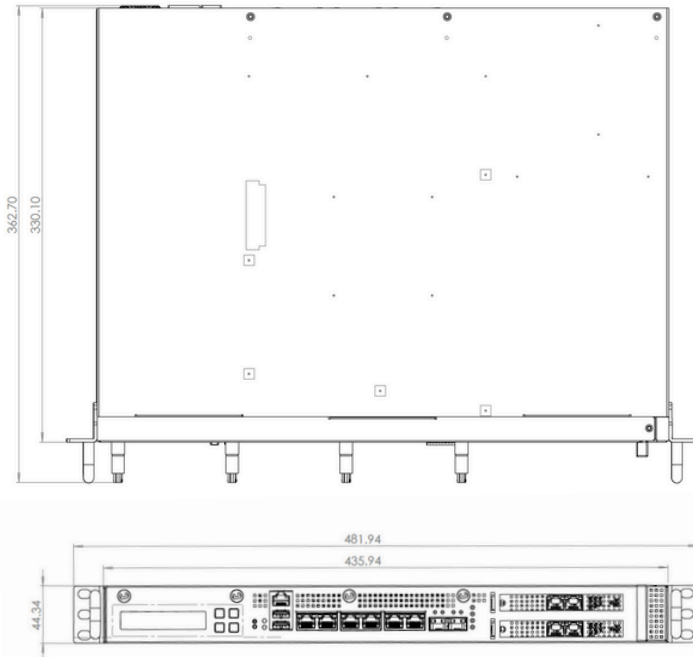
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PRODUCT I/O VIEW

LED Indicator (LEFT)

Console Port

6x 2.5GbE Copper Ports with 2 Pairs Bypass

2x SFP+/SFP28 Ports

LED Panel

Power/ Reset Button

2x USB 3.0 Ports

LED Indicator (Right)

2x PCIe/ OCP NIC Expansion

Redundant Power Supply

DIMENSION

Unit: mm

362.70
330.10

481.94
435.94
44.54

ORDERING GUIDE

500-24-0009R2	(R). PNSR-5000. PCle Chassis with LCM
500-24-0010R2	(R). PNSR-5000. Dual OCP Chassis with LCM

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