



Key Features

- Dual Intel® Xeon® 6 Processors
- Up to 32x DDR5 6400/5200MHz ECC RDIMMs
- 8x OCP NIC 3.0 slots, 2x PCIe Gen5 x16 slots
- 1x M.2 Key M for storage
- IPMI with AST2600 BMC
- Optional TPM 2.0 for security
- Ethernet Bypass available with the [Portwell PNC series OCP NIC 3.0 network adapters](#)
- Optional AI-centric expansion with GPU-empowered architecture

SPECIFICATION

Form Factor	2U 19" Rackmount Dual processors
CPU	Intel® Xeon® 6700 Series Processors with E-Cores up to 144 Cores, 330W TDP per CPU Future Intel® Xeon® 6 Processors with P-Cores
BIOS	AMI Aptio® V UEFI BIOS
IPMI	AST2600 BMC Firmware: AMI
System Memory	Total 32 DIMMs (2DPC) (1DPC) 16x DDR5 6400MHz ECC RDIMM, up to 4TB (2DPC) 32x DDR5 5200MHz ECC RDIMM, up to 4TB
Expansion	OCP NIC 3.0 slots (extended depth): - 4x PCIe Gen5 x16 from CPU#0 - 4x PCIe Gen5 x16 from CPU#1 PCIe slots: - 1x PCIe Gen5 x16 from CPU#0, FH 3/4L - 1x PCIe Gen5 x16 from CPU#1, FH 3/4L
Ethernet Ports	1x GbE RJ45 MGMT via Intel® Ethernet Controller I210 1x GbE RJ45 IPMI
Storage	1x M.2 Key M 2280 socket (NVMe) Supports Intel® VROC
Power Supply	2000W 1+1 CRPS Redundant Power Supply AC 100V-240V @47Hz-63Hz
Cooling	CPU: Passive 2U/2U EVAC heatsink System: 7x fans
Security	Optional TPM 2.0 Intel® Platform Firmware Resilience (PFR)
OS Support	Linux
Dimension	438mm (W) x 800*mm (D) x 88 mm (H) 17.24" (W) x 31.50"* (D) x 3.46" (H) *Subject to change

I/O

Serial Port	1x RJ45 Console port
USB	2x USB 3.2 Gen 1 ports, Type A 1x USB 2.0 header onboard (Optional)
LCD Panel	2x16 characters, 4x keypads
Display	1x VGA header at rear I/O
LED	Power/Status/Storage LEDs System ID LED
Power	Front: 1x Reset button Rear: 1x Power switch 2x AC power inlets for CRPS

ENVIRONMENTAL

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 70° C (-4°F to 158°F)
Humidity	5% to 95% RH, non-condensing

CERTIFICATION

Certification	CE/FCC Compliance
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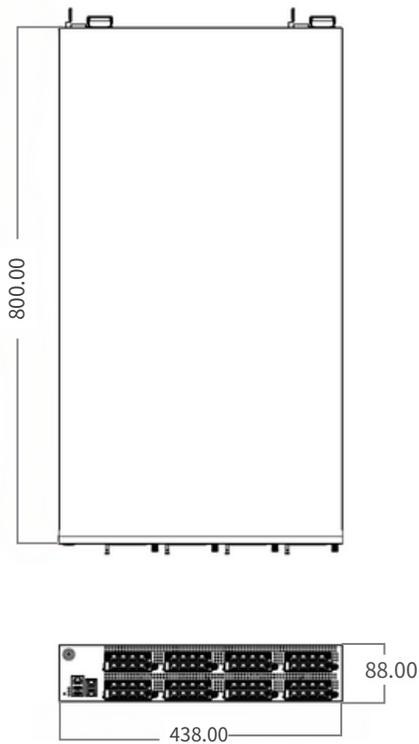
*All information provided is subject to change without notice. Last updated: October 22, 2025

PRODUCT I/O VIEW



DIMENSION

Unit: mm



ORDERING GUIDE

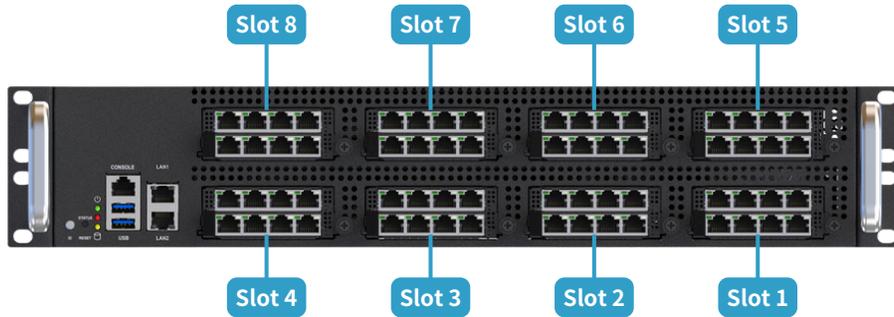
In-process	(R). PNSR-6000. 2U Network Appliance Based on Dual Intel Xeon 6 Processors
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*Optional NICs

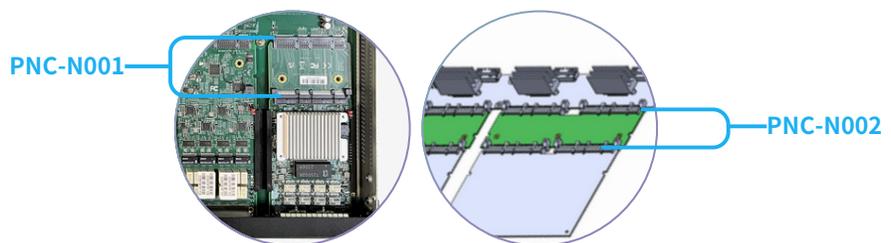
530-23-0001	PNC-OB2R-G10. OCP NIC 3.0 kit. 2x 10G RJ45. Bypass. Tall bracket
530-24-0022	PNC-EB4S-G10. SR 10G/1G card kit. 4x 10G SFP+. Bypass. Tall bracket
530-24-0024	PNC-EB4S-G10. LR 10G/1G card kit. 4x 10G SFP+. Bypass. Tall bracket
530-24-0025	PNC-EB8R-G2. OCP NIC 3.0 Extended kit. 8x 2.5G RJ45. Bypass
530-24-0026	PNC-EB4R-G2. OCP NIC 3.0 kit. 4x 2.5G RJ45. Bypass. Tall bracket
530-24-0028	PNC-ON4S-G25. OCP NIC 3.0 kit. 4x 25G SFP28. Tall bracket
530-24-0030	PNC-ON4S-G10. OCP NIC 3.0 kit. 4x 10G SFP+. Tall bracket
530-24-0032	PNC-ON4S-G1. OCP NIC 3.0 kit. 4x 1G SFP. Tall bracket
530-24-0035	PNC-OS4M. OCP 3.0 adapter kit for Four M.2 Expansion
530-24-0036	PNC-OS2M. OCP 3.0 adapter kit for Two M.2 Expansion

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NIC and Expansion Module Selection Guide



NIC & Expansion Module	Configuration	Bypass	Need PNC-N001 Card?	Need PNC-N002 Card?	Slot 1 - 8 Gen5 x16
PNC-EB8R-G2	8x 2.5GbE RJ45	4 pairs	no	no	✓
PNC-EB4S-G10 (SR)	4x 10GbE SFP+	2 pairs	no	no	✓
PNC-EB4S-G10 (LR)	4x 10GbE SFP+	2 pairs	no	no	✓
PNC-EB4R-G2	4x 2.5GbE RJ45	2 pairs	no	no	✓
PNC-EB2Q-G100	2x 100GbE QSFP28	1 pair	no	no	✓
PNC-OB2R-G10	2x 10GbE RJ45	1 pair	yes	yes	✓
PNC-ON1Q-G200	1x 200GbE QSFP56	N/A	yes	yes	✓
PNC-ON2Q-G100	2x 100GbE QSFP28	N/A	yes	yes	✓
PNC-ON4S-G25	4x 25GbE SFP28	N/A	yes	yes	✓
PNC-ON4S-G10	4x 10GbE SFP+	N/A	yes	yes	✓
PNC-ON4R-G10	4x 10GbE RJ45	N/A	yes	yes	✓
PNC-ON4S-G1	4x 1GbE SFP	N/A	yes	yes	✓
PNC-OS4M	4x M.2 Key M 2280	N/A	yes	yes	✓
PNC-OS2M	2x M.2 Key M 2280	N/A	yes	yes	✓



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