



FEATURES

- Intel® Xeon® 6 SoC (codenamed Granite Rapids-D HCC)
- Up to 8x DDR5 5200MHz ECC RDIMMs
- 2x100GbE QSFP28 Fiber ports up to 200Gbps throughput
- 2x OCP NIC 3.0 slots
- 2x M.2 Key M for storage
- 1x M.2 Key B for 4G/5G/LTE module
- IPMI with AST2600 BMC
- Optional TPM 2.0 for security
- PFR with AST1060

SPECIFICATION

Form Factor	1U 19" Rackmount
CPU	Intel® Xeon® 6 SoC (codenamed Granite Rapids-D) HCC: up to 42 cores, 235W TDP
BIOS	AMI Aptio® V UEFI BIOS
IPMI	AST2600 BMC Firmware: OpenBMC
System Memory	Total 8 DIMMs (2DPC) HCC: (1DPC) 4x DDR5 6400MHz ECC RDIMM, up to 512GB (2DPC) 8x DDR5 5200MHz ECC RDIMM, up to 1024GB OCP NIC 3.0 slots (extended depth): 2x PCIe Gen5 x16
Expansion	M.2: 1x M.2 Key B 3052 socket with dual SIM card slots (PCIe, USB) 2x M.2 Key M
Ethernet Ports	• 2x100GbE QSFP28, Max 200Gbps throughput • 1x GbE RJ45 MGMT via Intel® Ethernet Controller I210 • 1x GbE RJ45 IPMI
Storage	2x M.2 Key M 2280 socket (NVMe) Supports Intel® VROC
Power Supply	800W 1+1 CRPS Redundant Power Supply AC 100V-240V @47Hz-63Hz
Cooling	CPU: Passive heatsink System: 4x fans (*Subject to change)
Security	Optional TPM 2.0
OS Support	Linux
Dimension	438mm (W) x 464mm(D) x 44mm (H) 17.24" (W) x 18.27" (D) x 1.73" (H)

I/O

Serial Port	1x RJ45 Console port
USB	1x USB 3.2 Gen 2x1 port, Type A 1x USB 2.0 header onboard
LCD Panel	N/A
Display	1x VGA header at rear I/O
LED	Power/Status/HDD LEDs System ID LED
Power	Front: 1x Reset button Rear: 1x Power switch 2x AC/DC power inlets (select models)

ENVIRONMENT

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

CERTIFICATION

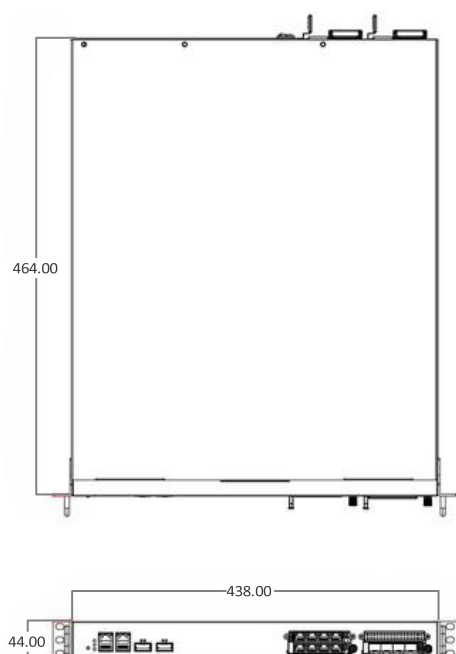
Certification	CE/FCC Compliance
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PRODUCT I/O VIEW



DIMENSION

Unit: mm



ORDERING GUIDE

510-25-0017	(R). PNSR-5002. 1U Network Appliance based on Intel® Xeon® 6 SoC
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*Optional NICs

530-24-0025	PNC-EB8R-G2. OCP NIC 3.0 Extended kit. 8x 2.5G RJ45. Bypass
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
530-24-0026	PNC-EB4R-G2. OCP NIC 3.0 kit. 4x 2.5G RJ45. Bypass. Tall bracket
530-23-0001	PNC-OB2R-G10. OCP NIC 3.0 kit. 2x 10G RJ45. Bypass. Tall bracket
530-26-0004	PNC-ON2Q-G100. OCP NIC 3.0 kit. 2x 100GbE QSFP28 Ports. 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
530-26-0002	PNC-ON4R-G10. OCP NIC 3.0 kit. 4x 10GbE RJ45 Ports. 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

NIC and Expansion Module Selection Guide



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

