PNSD-1000

Desktop Network Appliance based on Intel Atom® x7000RE/x7000C Series and Intel® Core™ i3 N-Series Processors
Featuring Onboard 4x 2.5GbE RJ45 with Bypass and 1x GbE SFP

FEATURES

- Intel Atom® x7000RE/x7000C Series and Intel® Core™ i3 N-Series Processors: integrated Intel UHD Graphics, Intel Deep Learning Boost (Intel DL Boost), Intel Advanced Vector Extensions (Intel AVX2) with INT8 support, and OpenVINO toolkit support
- 1x DDR5 4800MHz SODIMM up to 16GB, supports IBECC
- 4x 2.5GbE RJ45 Copper ports with 2 pairs bypass, 1x 1GbE SFP Fiber port
- 2x 2.5" HDD/SSD, 2x M.2 Key M for storage
- 1x M.2 Key B for 4G/5G/LTE module, 1x M.2 Key E for WiFi module
- Compact fanless system design

SPECIFICATION

Form Factor	Desktop
CPU	Intel Atom® x7000RE Series Processors Intel Atom® x7000C Series Processors Intel® Core™ i3 N-Series Processors Up to 8 Cores, 12W TDP
BIOS	AMI Aptio® V UEFI BIOS
IPMI	N/A
System Memory	Total 1 DIMM (1DPC) 1x DDR5 4800MHz SODIMM, up to 16GB Supports In-Band ECC (IBECC)
Expansion	1x M.2 Key B 3052 socket with dual SIM card slots (USB) 1x M.2 Key E 2230 socket (PCIe) (Optional)
Ethernet Ports	4x 2.5GbE RJ45 via Intel® Ethernet controller I226, supporting 2 pairs bypass 1x GbE SFP
Storage	2x 2.5" SATA 3.0 HDD/SSD 2x M.2 Key M 2280 sockets (NVMe or SATA)
Power Supply	(Optional) 60W power adapter, AC 110V-220V input, DC 12V output* *Subject to change
Cooling	CPU: Passive heatsink System: Fanless
Security	Onboard TPM 2.0
Dimension	210mm (W) x 166.28mm (D) x 42mm (H) 8.27" (W) x 6.55" (D) x 1.65" (H)

I/O

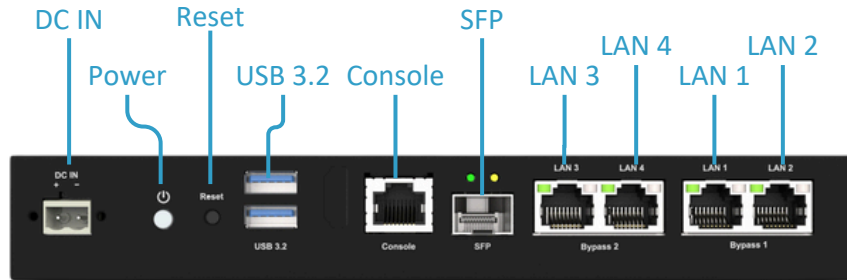|	
Serial Port	1x RJ45 Console port
USB	2x USB 3.2 Gen 1, Type A 2x USB 2.0 headers onboard
LCD Panel	N/A
Display	1x HDMI connector (by SKU)
LED	Power/HDD LEDs 2x RJ45 bypass status LEDs 8x RJ45 LEDs 2x SFP LEDs
Power	Front: 1x Reset button 1x Power button Rear: 1x DC power inlet (DC jack or terminal block*) *Subject to change

ENVIRONMENT

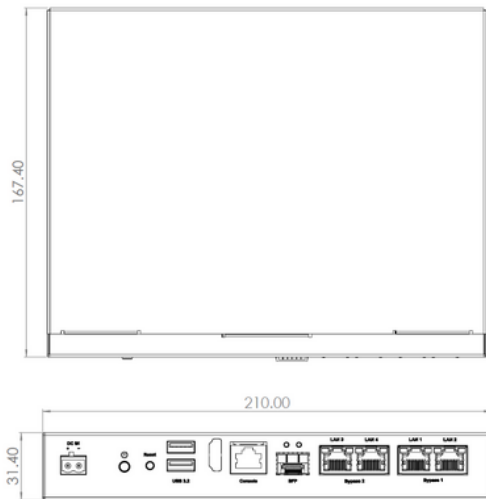|	
Operating Environment	0°C to 40° C (32°F to 104° F)
Storage Environment	-20°C to 70° C (-4°F to 167° F)
Humidity	5% to 95% non-condensing

CERTIFICATION

Certification	CE/FCC Compliance

*All information provided is subject to change without notice. Last updated: December 12, 2024

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PRODUCT I/O VIEW

DIMENSION

AVAILABLE SKU

Industrial (RE series)	x7213RE (2C), x7433RE (4C), x7835RE (8C)
Communication (C series)	x7405C (4C), x7809C(8C)-by project

ORDERING GUIDE

In-process	(R). PNSD-1000. Desktop Network Appliance based on Intel Atom® x7000RE/x7000C Series and Intel® Core™ i3 N-Series Processors

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