

PDNA 1170 Series

Desktop Cyber Security Appliance w/ Intel Atom® C5000 Processor,
4/8 x 1GbE Copper and 4 x 10GbE Fiber Ports



Main Features

- Intel Atom® C5315/C5325 processor
- 2 x DDR4 SODIMM, up to 64GB
- Up to 8 x 1GbE RJ45 ports
- 4 x SFP+ ports
- 2 x 60W AC power adapters
- Supports Wi-Fi (optional)
- Supports LTE/5G (optional)
- 4 x 1GbE RJ45 ports can optionally serve as bypass ports

Product Overview

PDNA 1170 series is NEXCOM desktop cyber security appliance with Intel Atom® processor C5000 series (former Parker Ridge) with up to 8 cores. It features up to eight 1GbE copper (4 for PDNA 1170 and 8 for PDNA 1170A/B) and four 10GbE fiber ports to meet various requirements for fixed wired connectivity. Installation of 5G/LTE and Wi-Fi modules ease customers expanding the maximal quantity of connected devices by adding wireless routes. Optional storage expansion with 2.5" SSD and enabling four ports with bypass function (PDNA 1170A/B) broaden available use cases and application scenarios.

Specifications

Main Board

- Intel Atom® processor Parker Ridge C5000
 - Intel Atom® processor C5315, BGA type, 4 cores/2.4 GHz for PDNA 1170
 - Intel Atom® processor C5315, BGA type, 4 cores/2.4 GHz for PDNA 1170A
 - Intel Atom® processor C5325, BGA type, 8 cores/2.4 GHz for PDNA 1170B

Main Memory

- 2 x DDR4 2933 SODIMM, up to 64GB

Storage

- 1 x M.2 2242 for SATA 3.0
- 1 x 2.5" SSD (optional)

Interface External

- Button: power and reset
- LED: status/MGMT/HA/PWR1/PWR2/SSD/LAN
- LED (optional): bypass/5G LTE/Wi-Fi
- 1 x RJ45 console port
- 3 x USB 3.0 connector
- 1 x Nano SIM slot (optional)
- 1 x 1G RJ45 management port
- 4 x 1GbE RJ45 ports (PDNA 1170)
- 8 x 1GbE RJ45 ports (PDNA 1170A/B)
 - 4 x 1GbE RJ45 ports can optionally serve as bypass ports
- 4 x SFP+ ports
- 1 x Fixed smart fan
- 2 x Power inlets
- 7 x Antenna holes (4 x antennas for 5G LTE, 3 x antennas for Wi-Fi 6)

Interface Internal

- 1 x M.2 3080 Key M slot for Wi-Fi module
- 1 x M.2 3042 Key B for 5G/LTE module
- 1 x TPM header

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Power

- 2 x 60W 19V AC power adapter

Dimension and Weight

- Chassis dimension (mm): 340mm x 250mm x 44mm (W x D x H)
- Package dimension (mm): TBC
- Without packing: TBD kg
- With packing: TBD kg

Environment

- Operating temperature: 0°C~40°C
- Storage temperature: -20°C~80°C
- Relative humidity: 10%~90% non-condensing

Certification

- CE/FCC class B

Ordering Information

• PDNA 1170 (P/N: TBD)

Intel Atom® processor C5315, BGA type 4 cores/2.4 GHz, w/ 4 x SFP+ & 4 x 1GbE RJ45 ports

• PDNA 1170A (P/N: TBD)

Intel Atom® processor C5315, BGA type 4 cores/2.4 GHz, w/ 4 x SFP+ & 8 x 1GbE RJ45 ports

• PDNA 1170B (P/N: TBD)

Intel Atom® processor C5325, BGA type 8 cores/2.4 GHz, w/ 4 x SFP+ & 8 x 1GbE RJ45 ports

