

# PNSA 1300



## Main Features

- Annapurna AL314 four-core 1.7GHz CPU bases on ARM® Cortex™-A15
- On-board 2GBytes SLC NAND flash. Upgradable to be up to 4GBytes
- On-board 2GBytes 64-bit DDR3 and 8-bit ECC. Supports 32/64-bit memory configurations
- Upgradable to be up to 4GBytes
- Using two 2.5G SGMII to provide higher bandwidth connection between CPU and Ethernet switch
- Optionally support up to two PCIe Wi-Fi modules for 3x3 11n/11ac dual-band dual-concurrent
- Three antennas could support dual-band dual-concurrent Wi-Fi

## Product Overview

PNSA 1300 is a top-performance platform and ideal for firewall application. The CPU is four-core ARM Cortex-A15 1.7GHz which provides highest performance capability for packet processing and network security. Modular design to support 3x3 11n/11ac Wi-Fi. Flexible design is easier to fulfill different requirements and applications.

## Specifications

### CPU

- Annapurna AL314 four-core 1.7GHz CPU base on ARM® Cortex™ -A15
- Integrate 2MB L2 cache
- Integrate ARM® NEON™ v2 for floating point and video processing

### Memory

- On-board 2GBytes SLC NAND flash. Upgradable to be up to 4GBytes
- On-board 2GBytes 64-bit DDR3 and 8-bit ECC. Supports 32/64-bit memory configurations. Upgradable to be up to 4GBytes

### Ethernet

- One 1GbE copper WAN (RJ45)
- One 1GbE combo DMZ (RJ45+SFP)
- Sixteen 1GbE copper LAN (RJ45)
- Four of sixteen LAN ports
- Two 2.5G SGMII connections between CPU and Switch

### Other I/Os

- Two USB 3.0 host
- One micro SD card reader with protective cover
- One RJ45 console supports to connect with serial modem for remote management
- One mini-USB console. Driver can be automatically installed from Microsoft support site

### Indicators and Buttons

- LEDs for power, alert, WAN, DMZ, LAN, USB, SD card, Internet, POE, VDSL and Wi-Fi
- One reset to default button
- One system reboot button

[www.nexcom.com](http://www.nexcom.com)

### Wi-Fi (Could be Optional)

- Two PCIe slots for two optional Wi-Fi modules. Supports up to dual-band dual-concurrent.
- Diplexer design for 3x3 dual-band dual-concurrent by three RP-SMA antennas

### HW Monitor

- Support HW monitor features via two thermocouples and ten voltages sensors

### Power Adapter

- External desktop power adapter
  - Power input: 100V~240VAC
  - Power output: 12V/90W for non-POE. 12V/150W for POE

### Dimension

- 430 x 281 x 44mm

### Weight

- 3.64 kg

### Environment

- Operation temperature: 0~40 degree C
- Storage temperature: -20~80 degree C
- Humidity: 10 to 90% (non-condensing)

### Certifications

- FCC class B
- UL
- CE/CB

