# NCP-3110

## 1U Packetarium™ Network Processor Platform

**Preliminary**

## Features

- Advantech Packetarium™ based Network Appliance
- Supports two 2.5" SATA HDD/SSD bays
- Eight 1GbE Ethernet RJ45 ports
- Two 10GbE SFP+ ports
- Four Metallic/LAN bypass pairs
- IEEE 1588v2 Support
- Synchronous Ethernet Support
- TurboDPI Support (optional)

## Introduction

The NCP-3110 represents the entry level Advantech Packetarium™ network appliance. It integrates powerful and multi-core Packetarium™ network processing card for wire speed packet processing. The system supports up to 40Gbps I/O interfaces with Cavium CN6880 32 core 1.2GHz processor. The default system configuration features two 10GbE fiber SFP+, eight 1GbE copper RJ45, 1GbE management port, two USB sockets, a console port and two extractable 2.5" SATA SSD/HDD bays.

NCP-3110 supports precision clock synchronization mechanisms SyncE and IEEE1588v2, for time critical applications. SyncE features ± 4.6ppm accuracy; on the other hand, IEEE1588v2 provides ±100ppm accuracy with the advantage of economical implementation cost. In addition, LAN bypass design prevents single point of failure on mission critical networks when custom-defined software or hardware events are detected.
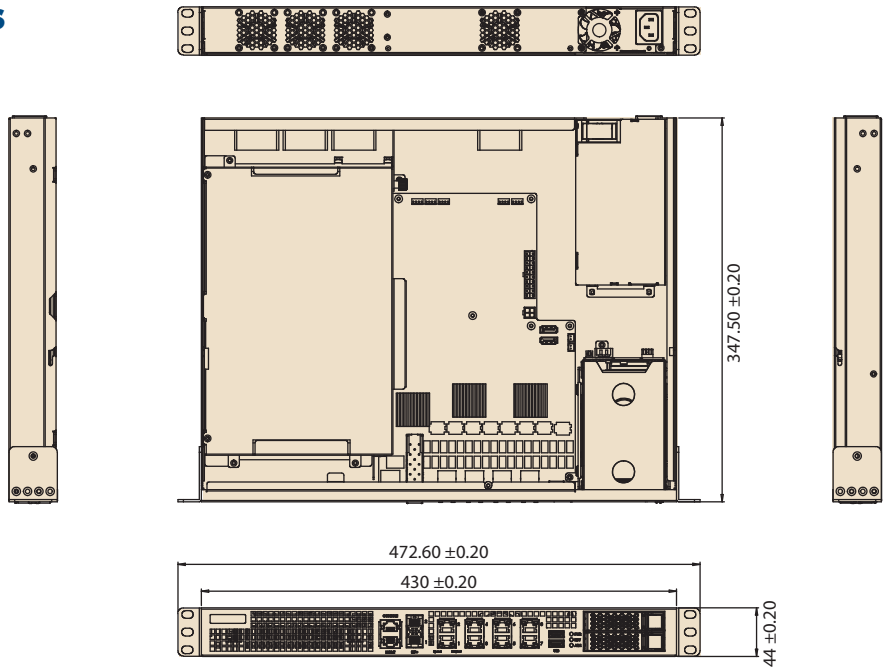
Cavium TurboDPI technology utilizes a hardware DPI engine for low latency pattern matching and delivers unprecedented packet processing performance. NCP-3110 is ideal for ODM enterprise applications such as content-aware applications, firewalls, UTMs, application-based routing and subscriber-based services.
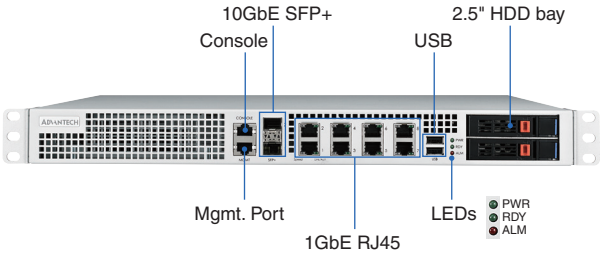
## Specifications

| | | | |
|---|---|---|---|
| Processor System | Storage Interface Processor | Cavium CN6880 | |
| | Max. Speed | 1.2 GHz | |
| | Processor Cores | 32cores | |
| Memory | | DDR3 16 GB (4 x 4 GB RDIMM) (Optional: 32GB) | |
| Network Interface | I/O Board Information | 8 x GbE RJ-45<br>2 x 10GbE SFP+ | |
| | Management Port | 1 x GbE RJ-45 | |
| Storage System | Controller | 1 x Sil3132 | |
| | Storage Interface | 2 x 2.5" SATA2 HDD/SSDs<br>2 x USB2.0 | |
| I/O Interface | Serial Port | 1 x RJ-45 type console port | |
| Power | Type/Watt | AC: 200 W | |
| | Input | AC: 100 ~ 240 $V_{AC}$ | |
| Cooling | Fan | 4 x Smart Fans | |
| Physical Characteristics | Dimension (W x H x D) | 426 x 44 x 345 mm (16.8" x 1.7" x 13.6") | |
| | Weight | 5 Kg (11.02 lbs) | |
| Environment | | Operating | Non-Operating |
| | Temperature | 0 ~ 40° C (32 ~ 104° F) | -20 ~ 70° C (-4 ~ 158° F) |
| | Humidity | 20% to 90% RH | 5% to 95% RH |
| | Altitude | 4000 m above sea level | |
| Compliance | EMC/Safety | CE/FCC/UL/CB/CCC | |

# Dimensions

Unit: mm

347.50 ±0.20

472.60 ±0.20

430 ±0.20

44 ±0.20

# Front Panel

10GbE SFP+

Console

2.5" HDD bay

USB

Mgmt. Port

1GbE RJ45

LEDs

PWR
RDY
ALM

# Compatible Packetarium™ Card

| NCPB-2320-01 | Cavium Octeon II CN6880 |
| --- | --- |
| | 32 Cores 1.2GHz |
| | 1 x PCIex4 |
| | 2 XAUI & 2 SGMIIx4 (or 4 XAUI) |