

Nexcom new 1U & 2U Server Grade appliances are for the Cloud Data Centers, and Edge Computing; Built with the dual Intel Xeon® Scalable Processors and chipsets, features to accelerate the network transformation and high virtualization applications. The modular-based is designed for easy upgradable, reducing time to market with up-to-date microprocessor technology.

Besides, our future proof NVMeOF appliance is an emerging low latency technology (simple feature-less JBOF); It magnitude speed improvement to storage systems. The NVMe Storage Server and JBOF disaggregate storage space with block access delivers scale-out, high optimization and inline data processing for the massive databases and Big Data analytics applications.

**NPA7100** features dual Intel Xeon E5-2600 v5/v6 Series processors providing additional processor improvement and higher memory bandwidth. Besides, with the add-on GPU or FPGA adapter on the ultra-fast PCIe x 16 expansion; accelerates the data processing performance.



## Specifications

### Platform Processor

- 2\* Intel® Xeon® Scalable Processors Family E5-2600 v5 and v6 Series
- Support Intel Cascade Lake Processors

### BIOS

- 32Mb SPI Flash EEPROM with AMI

### Memory

- 24\* DIMM slots, support up to 32GB DDR4 2133-2666MHz RDIMM/LRDIMM/NVDIMM, total capacity up to 768GB
- Support up to Intel 12 pcs Apache Pass (18W) in Cascade Lake

### System management

- Aspeed AST2500 Integrated Processor w/ VGA

### Internal Storage

- 2\* M.2 2280 SATA/PCIe x4 SSD
- 2\* SATA DOM

### Modular Expansion

- 4\* HHHH/LP PCIe Gen3 x16 SLED Module /Hot plug

### Expansion Slots (Rear)

- 2\* PCIe Gen3 x16 (Add-on card)

### I/O

- 1\* Dedicated IPMI LAN port,
- 1\* VGA port (D-Sub), 1\* RS232 COM port,
- 2\* USB3.0 port (Back), 1\* USB2.0 port (Front Panel)

### Power Supply

- 1200W Redundant CRPS Power Supply

### Environmental Specification

- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
- Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

### Certifications

- FCC/CE, RoHS/WEEE

### Dimension

- 790.76mm (D) x 436mm (W) x 44.5mm (H)  
(1U, 4\*HHHL Rack Chassis)

**NPA7101** supports node-based deployment which CPU and Storage capacity can be scale and expand using JBOF to achieve Business Continuity.

## Specifications

### Platform Processor

- 2\* Support Intel® Xeon® Scalable Processors Family E5-2600 v5 and v6
- Support Intel Cascade Lake Processors

### BIOS

- 32MB Dual SPI Flash EEPROM (AMI code base)

### BMC

- Aspeed AST2500 Integrated Processor w/ VGA

### BMC firmware

- 32MB Dual SPI Flash EEPROM (AMI code base)

### Memory

Up to 768GB DDR4 2133-2666 RDIMM/LRDIMM/NVDIMM

- Support up to Intel 12 pcs Apache Pass (18W) in Cascade Lake

### PCH

- Intel Lewisburg C621-1G PCH

### Internal Storage

- 2\* M.2 2280 SATA/PCIe Gen3 X4 SSD
- 2\* SATA DOM

### Drive Bays

- 24\* Hot-Swap Dual Port(PCIe 2x2) NVMe U.2 SSD

**NPA7800** gives data centers unprecedented access to NVMe SSD/HDD storage. The NVMeOF enables faster access between hosts and storage systems, drives new levels of business agility and competitiveness.

## Specifications

### Base Board

- 2\* PCIe Fabric Switch, Broadcom PEX9797
- 9\* Gigabit Ethernet Ports (Switch)
- 2\* Gigabit Dedicated LAN for Management
- 2\* PCIe Riser for 6 \*PCIe x16 slots
- ASpeed 2500 for BMC

### Drive Bays

- 24\*2.5" U.2 (SFF-8639) Single Port NVMe drive
- Hot-pluggable NVMe drive

### PCIe Slots

- 2\* PCIe Gen3 X16 Slot (FHHL)Storage
- 1\* PCIe Gen3 x16 (HHHL)
- 1\* PCIe Gen3 X8 Slot (OCP)

### System FAN

- 5\* 6038 heavy duty PWM fans

### Broadcom Stingray Smart NIC Support (optional)

- Up to 6\* Stingray Smart NIC
- Stingray Smart NIC specification:**
- Broadcom Stingray SoC
  - 1\* 100Gbps port, QSFP28
  - 1\* 1Gbps port for Management
  - 2\* VLP RDIMM sockets

### Chassis Management

- OpenBMC, IPMI 2.0, RESTful API, DMTF Red Fish API



### I/O

- 2\* 10GBase-T LAN
- 1\* Dedicated IPMI LAN port
- 1\* VGA port (D-Sub) ; 1\* RS232 COM port
- 2\* USB3.0 (Back), 1\* USB2.0 (Front Panel)

### PCIe Slots

- 2\* PCIe Gen3 X16 Slot (FHHL)Storage
- 1\* PCIe Gen3 x16 (HHHL)
- 1\* PCIe Gen3 X8 Slot (OCP)

### Power Supply

- Up to 2000W Redundant CRPS Power Supply

### Environmental Specification

- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
- Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

### Certifications

- FCC/CE, RoHS/WEEE

### Dimension

- 448mm(W)\*840mm(D)\*88.9mm(H)  
(2U2N, Rackmount)



### System Software

- Standard-based, NVMeOF 1.0 Protocol
- Linux Kernel NVMeOF target
- Access Control List (ACL)
- SPDK for NVMe driver & NVMf target
- Support for multiple hosts/ subsystems/ control/ name-space
- SSD pooling (Big SSD, RAID 0)
- SW-configurable name spaces
- NVMe hotplug support
- DC integration: Openstack
- SDS integration: Ceph RBD

### Power Supply

- 2\* 1200W Redundant Power Supply

### Environmental Specification

- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
- Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

### Certifications

FCC/CE, RoHS/WEEE

### Dimension

- 448mm(W)\*594.7mm(D)\*87.2mm(H)  
(2U Rackmount)