

NSA 7150/7150A

2U Rackmount Performance Appliance
w/ Dual 3rd Gen Intel® Xeon® Scalable processor and
8 x PCIe4 LAN Module Slots



Main Features

- Dual 3rd Gen Intel® Xeon® Scalable processor (socket P + 4189-pin)
- Supports Intel® Optane™ Persistent Memory
- 20 x DDR4 3200 ECC RDIMM/LRDIMM
- 2 x 2.5" swappable SSD/HDD
- 8 x PCIe4 LAN module slots
- 1 x PCIe4 x16 low profile riser card
- 1300W 1 + 1 CRPS redundant power supply
- Supports OCP NIC 3.0
- Supports IPMI 2.0 BMC (optional)
- Supports Intel® QAT (NSA 7150A)

Product Overview

The NSA 7150 is a 2U rackmount high-performance networking appliance intended for networking security and 5G network applications. Based on 3rd Gen Intel® Xeon® product family (codenamed Whitley), NEXCOM's NSA 7150 features enhancements in multi-core computing performance, high memory capacity, high speed I/O interface, and Intel® QAT hardware acceleration with DPDK to support NEXCOM proprietary LAN modules and OCP NIC 3.0 modules for both enterprise and telecommunication applications.

Specifications

Main Board

- Dual 3rd Gen Intel® Xeon® Scalable processor
- Intel® C627A w/ Intel® QAT (NSA 7150A)
- Supports 3 x UPI between CPUs
- Supports 8 x PCIe4 LAN modules
- Supports IPMI 2.0 BMC (optional)

PCH

- NSA 7150: Intel® Lewisburg Refresh LBG-1G (C621A)
- NSA 7150A: Intel® Lewisburg Refresh LBG-T (C627A)

Memory

- Support 20 (10 + 10) DDR4 memory DIMMs (up to 1280GB for RDIMM and up to 2560GB for LRDIMM)
- Support Intel® Optane™ persistent memory (Barlow Pass)

Storage

- 2 x 2.5" swappable SSD/HDD
- 1 x M.2 2280 (Key M) socket

Interface External

- Button: power & reset & NMI
- LED: PWR/STBY/HDD/ERR
- 2 x 2.5" swappable SSD/HDD bays
- 2 x USB 3.0 ports
- 1 x RJ45 type console
- 8 x LAN module slots + 1 x PCIe4 x16 low profile card
- 8 x OCP NIC 3.0 slots + 1 x PCIe4 x16 low profile card (optional)

- 4 x LAN module slots + 1 x PCIe4 x16 FHFL card (optional)
- 2 x Management ports
- 1 x VGA port (for models with BMC installed only)
- 3 x Swappable smart fans
- 2 x Power inlets
- LCM module

Interface internal

- TPM 2.0 module (optional)
- BMC module (optional)

Power

- 1300W 1 + 1 CRPS redundant power supply

Dimension and Weight

- Chassis dimension: 438 mm x 650 mm x 88 mm
- Carton dimension: 867 mm x 688 mm x 249 mm
- Without packing: 16.72 kg
- With packing: 25 kg

Environment

- Operating temperature: 0°C~40°C
- Storage temperature: -20°C~75°C
- Relative humidity: 10%~90% non-condensing

Certification

- CE/FCC Class A

Ordering Information

Barebone

- ♦ **NSA 7150 (P/N: 10S00715000X0)**
2U w/ Dual 3rd Gen Intel® Xeon® Scalable processor, w/o QAT, LCM,
8 x LAN module slots
- ♦ **NSA 7150A (P/N: 10S00715001X0)**
2U w/ Dual 3rd Gen Intel® Xeon® Scalable processor, w/ QAT, LCM,
8 x LAN module slots