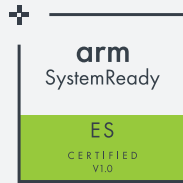


NSA 6310/6310-1GE

1U Rackmount uCPE
w/ NXP® Layerscape® Processor,
4 x GbE RJ45 Ports and 2 x LAN Modules



NSA 6310



NSA 6310-1GE

Main Features

- NXP® LX2160A multicore processor
- 4 x DDR4 ECC-UDIMM, up to 64GB
- 1 x M.2 2280
- PCIe Gen3 x8 with SR-IOV
- Supports 1/10GbE Ethernet connectivity
- Supports KVM/QEMU
- Redundant power supply
- OS: NXP® LSDK (Ubuntu UserLAnd)

Product Overview

1U rackmount uCPE NSA 6310, powered by the NXP® Layerscape® LX2160A SoC processor, helps telecom companies build virtualized environments and edge applications. This appliance combines sixteen ARM® Cortex®-A72 processor cores with high-performance data path accelerators for networking and telecom/enterprise uses. It features a flexible I/O networking design to supports up to 10Gb Ethernet connectivity, together with leveraging FPGA or GPU cards for edge computing.

Specifications

Main Board

- NXP® Layerscape® LX2160A SoC, BGA type, 16 Cortex®-A72 CPU cores, running up to 2.2GHz
 - LX2160A, 16 cores
 - LX2120A, 12 cores
 - LX2080A, 8 cores

Main Memory

- 4 x DDR4 3200 ECC-UDIMM sockets or 4 x DDR4 2666 ECC-UDIMM sockets

Storage

- 1 x 2.5" internal SSD/HDD bay
- 1 x M.2 2280 Key B, supports SATA 3.0 signal

Interface External

- 4 x LED: 0/1/2/3
- Button: reset
- 1 x Console port
- 2 x USB 3.0 type-A ports
- 4 x 1GbE RJ45 ports
- 1 x Micro SIM card slot
- 2 x SerDes LAN module slots
- 1 x PCIe card slot
- 2 x Fixed smart fans
- 2 x Power inlets

Interface Internal

- 1 x mini-PCIe for Wi-Fi module
- 1 x M.2 2242 Key B with SIM slot for LTE module
- Micro SD slot

Power

- 550W 1+1 CRPS redundant PSU

Dimensions and Weight

- Chassis dimension: 430 mm x 480 mm x 44 mm
- Package dimension: 665 mm x 586 mm x 225 mm
- Without packing: 7.95kg
- With packing: 12.97kg

Environment

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

Certifications

- CE/FCC Class A
- LVD

Software Development Kit

- NXP® Layerscape® SDK 20.04-NEXCOM NSA 6310 revision
- Supports Ubuntu UserLAnd (LTS kernel v5.4.3)