



Main Features

- NXP QorIQ LS2085A/LS2088A Communication Processor, up to 2.0GHz
- DDR4 2133/2400 UDIMM Memory (1 x ECC slot, 4 x Non-ECC slot)
- 4 x port 1/10 GbE Copper, 4 x port SFP+
- Onboard 1GB NAND Flash, 128MB NOR Flash
- Removable SD Card
- USB 3.0 port, 1 x Type-A, 1 x Micro-B Connector

Product Overview

The NSA3640 brings server-class performance into a cost and feature optimized 1U whitebox appliance for advanced Unified Threat Management (UTM) and vECPE solutions with multi-10 Gigabit throughput. The NSA 3640 features NXP's QorIQ LS2085A/LS2088A eight ARM® Cortex®- A57/ A72 cores communications processor includes NXP's second generation data path acceleration architecture (DPAA2).

DPAA2 provides the infrastructure required to support simplified and secure networking interface and accelerator sharing by multiple general purpose CPU cores which can provide the fast data transfer including end-to-end encryption can be provided without compromising VNF performance or increasing cost. With higher performance and greater throughput for enterprise deployments in NFV use cases such as vECPE and SD-WAN.

Specifications

Main Board

- NSB 3640
- NXP QorIQ SOC Process LS2085A/LS2088A, BGA Type

Main Memory

- DDR4 2133/2400 Long-DIMM Memory x 5 (one for ECC), Max. 64GB

LAN Features

- 1 x 10GE RJ45: AQUANTIA: AQR405-B1-EG-Y
- 1 x 10GE SFP+ : INPHI: WPCS4340C.A0-900031
- Support 100/1000/10G Link Speed
- 4 x Copper Ports
- 4 x Fiber Ports

Expansion

- 1 x PCIe8 slot
- 1 x PCIe4 slot (no riser card)

I/O Interface-Front

- Power status/LAN status
- 1 x SD Card
- 1 x USB 3.0 type A, 1 x USB 3.0 Micro-B
- 2 x RJ45 type console port

Devices

- 1 x Internal 2.5" HDD bay
- 1 x SD socket

I/O Interface-Rear

- 1 x Expansion slot for PCIe8

Power Input

- 300W ATX power supply

Dimensions

- Chassis dimension: 426 mm x 300mm x 44mm
- Carton dimension : 582mm x 512mm x 169mm

Weight

- Without packing: 8kg
- With packing: 12kg

Certifications

- CE approval
- FCC Class A

Ordering Information

Barebone

- **NSA 3640A (P/N: 10S00364001X0)**

NXP QorIQ architecture CPU LS2085A/LS2088A, up to 2.0GHz, On Board 128MB NOR Flash, 1G NAND Flash, 5 x DDR4 DIMM Sockets, 4 x 10G RJ45, and 4 x 10G SFP+ LAN Ports