



### NA226400

### Silicom Hybrid Networking Application Switch

#### Product Description

Silicom Hybrid Application Switch is a network appliance platform based on Intel Server architecture and network switch.

The Silicom Application Switch is based on a dual socket server mother board and Intel® FM6000 switch engine.

The Silicom application switch unique architecture is based on standard server and switch in a system.



#### Key Features

- Integrates server capabilities together with a top of the rack switch
- Front connectivity: Supports up to 48x 10G IO port
- Provides Intel® x86 processor and network switching in a standard rack mount server
- Enables unparalleled connectivity between host and switch
- Hybrid solution that saves a box in the data center
  - Saves power and Simple to maintain
  - Saves volume in the rack mount
  - Saves cabling and routing of cables
  - Reduce CAPEX and OPEX
- Silicom API: Easiest “local SW management” (no need to develop on top of an external switch)
- Targeted to standard rack mount servers (2U, 3U, 4U)
- Supports Intel® Alta (67Xx) and Fortville (XL710 PCI E controller)
- Fits any standard M/B with adjacent PCI E slots
- Based on standard server grade reliability
- High versatility with configurable I/O port options
- Up to 640 Gbps Switch capability
- Host interface: up to 5 x 40Gbe thorough PCI Express Gen 3.0 (8Gbps) X8 lanes

**Switch performance:**

- Up to 72x10GbE or 18 x40GbE ports, up to 640 Gbps BW
- KR4, KR, XFI, XLPPI interfaces

**Layer 2:**

- 64K-entry MAC table
- Efficient MAC table utilization with 16-way hash
- 64-port LAG filtering
- 36K multicast groups with wire-speed replication
- Multiple Spanning Tree support
- Independent and shared VLAN learning

**Layer 3:**

- IPv4, IPv6 lookups
- Up to 64K IPv4 entries or up to 16K IPv6 entries
- Fully-provisioned IP multicast routing
- CEE and DCB support
- QoS and congestion management
- Switch virtualization and scaling
- Security – Port-based security (802.1X), MAC address security

**I/O Interfaces:**

- 10Gigabit Ethernet: SFP+ connector supporting
  - SR: Fiber 10 Gigabit Ethernet 10GBASE-SR
  - LR: Fiber 10 Gigabit Ethernet 10GBASE-LR
  - XR: Copper 10SFP+Cu (Passive Direct Attach Cable)

**Technical Specifications**

General Technical Specifications	
<b>Chassis</b>	2U
<b>Mother Board</b>	SuperMicro X9DRH-IF
<b>Power Supply</b>	2U 980W redundant Power Supply

<b>CPU</b>	Dual Socket Intel® Xeon® processor E5-2600and E5-2600 v2
<b>Memory</b>	16x 240-pin DDR3 DIMM sockets 1866/1600/1333/1066/800MHz* ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
<b>HDD / SSD</b>	Up to two 2.5" SATA HDD or SSD HD in the Front
<b>Expansion slots</b>	1x PCI-E 3.0 x16, free slot for future use 6x PCI-E 3.0 x8, used to connect MB to switch
<b>Server remote management</b>	Support for IPMI v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>FANS</b>	3 Rear FANS
<b>I/O</b>	44 SFP I/O on the front
<b>Chassis Dimensions</b>	Height: 3.5" (89mm) Width: 17.2" (437mm) Depth: 26.3" (668mm)

## Order Information

P/N	Description	Notes
<b>NA226400</b>	2U Hybrid Application Switch	<p>2U chassis</p> <p>X8 Gen3, based on Intel FM6764 640GBps and 5x XL710</p> <p>Mother board: 1x X9DRH-IF</p> <p>CPU: 2x Intel® Xeon® Processor E5-2690 v2 (25M Cache, 3.00 GHz)</p> <p>Memory: 8x 8GB 1600MHz DDR3</p> <p>SSD: 1x SOLID STATE DISK, SATA 80G (0~70°C)</p> <p>HDD: 1x 2.5" 500GB SATA HDD</p> <p>PSU: 980W redundant</p> <p>Rack mount rails</p> <p>RoHS Compliant</p>