



Data Center NA226402

Silicom Hybrid Networking Application Switch

Product Description

Silicom Hybrid Networking Application Switch combines Intel Network switching in a standard rack mount server chassis.

It includes Main Switching Board, built around the Intel® Alta chip set with up to 44 SFP I/Os.

The switch is based on Intel® FM6000 family placed on the Main Switching Board, while the Host interface is implemented as PCIe device, based on the Intel® Fortville chip set located on the PCIe.

Silicom Networking Application Switch brings highest industry standard server grade reliability, while enabling high versatility with configurable I/O port options.



Key Features

- Combine server capabilities together with a top of the rack switch
- Front connectivity: Supports up to 44x 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	
Chassis	2U
Mother Board	SuperMicro X10DRH-I
Power Supply	2U 1200W redundant Power Supply
CPU	Dual Socket Intel® Xeon® processor E5-2690 v4 (35M Cache, 2.6 GHz)
Memory	Up to 16x 288-pin DDR4 DIMM sockets 2400/2133/1866/1600MHz* ECC DDR4 SDRAM 72-bit, 288-pin gold-plated DIMMs
HDD / SSD	Up to two 2.5" SATA HDD or SSD HD in the Front
Expansion slots	1x PCI-E 3.0 x16, free slot for future use 6x PCI-E 3.0 x8, used to connect MB to switch
Server remote management	Support for IPMI v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
FANS	3 Rear FANS
I/O	44 SFP I/O on the front
Chassis Dimensions	Height: 3.5" (89mm) Width: 17.2" (437mm) Depth: 26.3" (668mm)

Order Information

P/N	Description	Notes
NA226402	2U Application Switch	2U chassis X8 Gen3, based on Intel FM6764 640GBps and 5x XL710 Mother board: 1x X10DRH-I CPU: 2x Intel® Xeon® Processor E5-2690 v4 (35M Cache, 2.6 GHz) Memory: 8x 8GB 2133MHz DDR4 SSD: 1x SOLID STATE DISK, SATA 128G (0~70°C) HDD: 1x 2.5" 500GB SATA HDD PSU: 1200W redundant Rack mount rails RoHS Compliant

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