Layer 3 1/10Gigabit Ethernet Switch - SSE-G24-TG4

Specifications

Layer 3 1/10Gigabit Ethernet Switch

Enterprise-Class Performance with Advanced Switching Capabilities in a 1U Form Factor for 1/10-Gigabit Ethernet Networking

SSE-G24-TG4 The new SSE-G24-TG4 from Supermicro is a standalone 24-port Layer 2/Layer 3 1/10-Gigabit Ethernet switch. It offers a full suite of advanced Ethernet switching features - the same as in the new Ethernet switch for the Supermicro SuperBlade® server systems. In addition to the 24 ports at 1-gigabit per second, the SSE-G24-TG4 offers up to four 10-gigabit per second "uplink ports". These uplink ports can be used to connect to 10-Gigabit Ethernet backbone networks or servers with 10-Gigabit Ethernet connectivity - or they can be "stacked" together to create an even larger capacity switch. Fiber or copper wiring options are available for the 10-Gigabit connections.

Offered in a 1U form factor, the SSE-G24-TG4 switch is ideal for use as a wiring closet aggregation switch, as a top-of-rack aggregation switch, or even as a core switch for a small business or branch office. A comprehensive set of management tools are available through either a Command Line Interface or through a Browser-based GUI.

Highlights

- Wire-speed Layer 3 Routing
- 1:1 Non-blocking connectivity
- 1U form factor for flexible installation

Specification (Quick Reference Guide)

- **Port Attributes**:
  - 24 one Gigabit Ethernet ports
    - * 24 RJ45 Copper ports
    - * Four fiber SFP combo ports
  - Up to four high-speed ports
    - * Two or four 10 Gigabit Ethernet uplink ports
    - * Up to two stacking ports
  - Out-of-band RS-232 Management port
- **Performance**:
  - Switching capacity: 136 Gbps
  - Stacking performance - up to 48 Gbps
  - Forwarding rate: 95 Mpps
- **Availability**:
  - Spanning Tree (802.1D)
  - Rapid Spanning Tree (802.1w)
  - Multiple Spanning Trees (802.1s)
  - Virtual Redundant Routing Protocol (VRRP)
- **VLAN**:
  - 802.1Q tagging, port and protocol based
  - 1024 VLANs
  - Dynamic VLAN Support (GVRP)
- **Quality of Service and DiffServ**:
  - 8 priority queues per port
  - Adjusted WRR and Strict Priority Scheduling
  - Layer 2 / 3 / 4 Prioritization
  - Marking
  - Metering / Rate limiting

Download

Specifications	- Quick Reference Guide [Download] - Standards Supported [Download]
Manuals	- Config. Guide for CLI [Download] - Config. Guide for Web GUI [Download] - CLI Manual [Download] - Switch User's Manual [Download]
Firmware	- Firmware Upgrade [Download]

Specification (Continued)

- **Switching Features**:
  - Link Aggregation - 24 groups with 8 members per group
  - LACP Support
  - Link Layer Discovery Protocol (802.1AB)
  - Jumbo Frame Support
  - Port Mirroring - N to 1. Tx & Rx Configurable
- **Routing Features**:
  - Static Routing, RIP v1/v2, RIPng, OSPF v1/v2/v3 and BGP
  - IPv4 and IPv6 Routing
  - VRRP (Virtual Router Redundancy Protocol)
  - DVMRP (Distance Vector Multicast Routing Protocol)
- **Multicast**:
  - IGMP Snooping v1/v2/v3
  - IGMP v1/v2/v3
  - PIM SM, PIM DM
  - PIM SMv6
- **Security**:
  - 802.1x Port Based Authentication
  - Switch access password protection
  - Layer 2 / 3 / 4 Access control Lists
  - RADIUS and TACACS+ Authentication
  - SSH / SSL Encryption
- **Management**:
  - Web-basd management interface - HTTP, HTTPS
  - Industry standard CLI with telnet, SSH or local management port
  - Scripting capability
  - Command completion
  - Multiple levels of user privileges (CLI and Web UI)
  - SNMP v1/v2/v3
  - Four RMON Groups - (1, 2, 3 and 9)
  - Logging - syslog
  - Dual firmware images
  - Configuration file - upload / download
- **Options**:
  - **AOM-SSE-X2C:** Two-port CX4 Connector Module for copper connections
  - **AOM-SSE-X2F:** Two-port XFP Connector Module for Fiber connections
  - **AOM-SSE-X2S:** Two-port SFP+ Connector Module for Copper or Fiber connections
- **Operating Conditions**:
  - Operating temperature: 0 to 40°C
  - Power Consumption: 105 W

Dimensions

Height	▪ 1.7" (43mm)
Width	▪ 17.3" (440mm)
Depth	▪ 15.2" (387mm)
Gross Weight	▪ w/o modules: 12.2 lbs (5.54 kg) ▪ w/ modules: 12.6 lbs (5.70 kg)
Available Colors	▪ Black

Add-On Modules (Optional)

- **AOM-SSE-X2C** Dual-port CX-4 Copper interface module

- **AOM-SSE-X2F** Dual-port XFP fiber interface module

- **AOM-SSE-X2S** Dual-port SFP+ interface module for copper or fiber connections

Other Accessories

Cables	CX4 Cables: For Stacking or 10GE Interconnect - - CBL-0474L - One Meter Length - CBL-0389L-01 - Three Meter Length SFP+ Direct Attach Cables: - CBL-0347L - One Meter Length - CBL-0348L - Three Meter Length - CBL-0349L - Five Meter Length SFP+ Transceiver for use with fiber cable connections: AOC-E10GSFPSR

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