

SUPERMICR[®]

Layer 3 Ethernet Switch Family

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

Key Features:

- ✓ Wire-speed Layer 3 Routing
- ✓ 1:1 Non-blocking Connectivity
- ✓ 1U Form Factor for Flexible Installation

In today's computing environments, applications require access to more and more data – and they need it quickly. Supermicro paves the way for this data superhighway with its powerful and cost-effective 10-Gigabit Ethernet switching products. The top-of-rack twenty-four port SSE-X24S switch provides high-speed interconnect between 10-Gigabit Ethernet-enabled servers as well as giving them access to the high-speed backbone. Its companion product, SSG-X24SR, offers reverse airflow for optimal cooling a datacenter rackmount environment. An optional rail kit further facilitates the rackmount installation. The SSE-G24-TG4 and SSE-G48-TG4 top-of-rack aggregation switches give servers with lower-speed Ethernet connectivity an access ramp to the 10-Gigabit Ethernet superhighway.

The 1U form factor gives users the ability to optimize deployment in wiring closet environments in addition to top-of-rack installations. 10-Gigabit Ethernet routers, servers, backbones and data centers can all benefit from these cost-effective solutions.

A comprehensive routing and protocol software suite ensures optimal performance in even the most demanding enterprise-class networking environments. The switches are ideal for organizations with growing and consolidated data centers.



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Enterprise-class performance with advanced switching capabilities in a 1U form factor. Highly cost-effective 10-Gigabit and 1/10-Gigabit Ethernet Networking – Standalone or Top-of-Rack.

NEW!



Model	SSE-X24S/SR	SSE-G48-TG4	SSE-G24-TG4
Port Attributes	<ul style="list-style-type: none"> • 24 Ten Gigabit Ethernet ports - SFP+ Connectors • 1 One-Gigabit Ethernet port - RJ45 Connector • Out-of-band RS-232 Management port 	<ul style="list-style-type: none"> • 48 One Gigabit Ethernet ports - 48 RJ45 Copper ports • Four fiber SFP combo ports • Out-of-band RS-232 Management port • Up to four 10-Gigabit Ethernet uplinks • Up to two stacking ports 	<ul style="list-style-type: none"> • 24 One Gigabit Ethernet ports - 24 RJ45 Copper ports • Four fiber SFP combo ports • Out-of-band RS-232 Management port • Up to four 10-Gigabit Ethernet uplinks • Up to two stacking ports
Switching capacity	• 480 Gbps	• 184 Gbps	• 136 Gbps
Stacking performance		• Up to 48 Gbps	• Up to 48 Gbps
Power Consumption	<ul style="list-style-type: none"> • 176 W (Redundant Power Supplies) • Reverse airflow model available 	• 145 W	• 105 W
Weight	• 18.1 lbs/ 8.18 kg	<ul style="list-style-type: none"> • 13.7 lbs/ 6.20 kg (w/ modules) • 13.4 lbs/ 6.06 kg (w/o modules) 	<ul style="list-style-type: none"> • 12.6 lbs/ 5.70 kg (w/ modules) • 12.2 lbs/5.54 kg (w/o modules)
Availability	<ul style="list-style-type: none"> • Spanning Tree (802.1D) • Rapid Spanning Tree (802.1w) 	<ul style="list-style-type: none"> • Multiple Spanning Trees (802.1s) • Virtual Redundant Routing Protocol (VRRP) 	
VLAN	<ul style="list-style-type: none"> • 802.1Q tagging, port and protocol based • Dynamic VLAN Support (GVRP) 	<ul style="list-style-type: none"> • Static VLANs - 1024 (SSE-G24-TG4 and SSE-G48-TG4) - 4096 (SSE-X24S) 	
Quality of Service and DiffServ	<ul style="list-style-type: none"> • 8 priority queues per port • Adjusted WRR and Strict Priority Scheduling • Layer 2, 3, 4 Prioritization 	<ul style="list-style-type: none"> • Marking • Metering / Rate limiting 	
Switching Features	<ul style="list-style-type: none"> • Link Aggregation - 24 groups with 8 members per group • LACP Support • Link Layer Discovery Protocol (802.1AB) 	<ul style="list-style-type: none"> • Jumbo Frame Support • Port Mirroring – N to 1. Tx & Rx Configurable 	
Routing Features	<ul style="list-style-type: none"> • Static Routing, RIP v1/v2, RIPng, OSPF v1/v2/v3 and BGP • IPv4 and IPv6 Routing 	<ul style="list-style-type: none"> • VRRP (Virtual Router Redundancy Protocol) • DVMRP (Distance Vector Multicast Routing Protocol) 	
Multicast	<ul style="list-style-type: none"> • IGMP Snooping v1, v2, v3 • IGMP v1, v2, v3 	<ul style="list-style-type: none"> • PIM SM, PIM DM • PIM SMv6 	
Security	<ul style="list-style-type: none"> • 802.1x Port Based Authentication • Switch access password protection • Layer 2, 3, 4 Access Control Lists 	<ul style="list-style-type: none"> • RADIUS and TACACS+ Authentication • SSH, SSL Encryption 	
Management	<ul style="list-style-type: none"> • Web-based management interface – HTTP, HTTPS • Industry standard CLI with telnet, SSH or local management port - Scripting capability - Command completion - Context sensitive "Help" 	<ul style="list-style-type: none"> • Multiple levels of user privilege (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 	
Dimensions (WxDxH)	• 440 x 387 x 43mm (17.3" x 15.2" x 1.7")		
Operating Temperature	• 0 ~ 40°C		
Options (order at least one, maximum two with each SSE-G24-TG4 or SSE-G48-TG4)			
<p>AOM-SSE-X2C Two-port CX4 connector module for copper connections</p>	<p>AOM-SSE-X2F Two-port XFP connector module for fiber connections</p>	<p>AOM-SSE-X2S Two-port SFP+ connector module for copper or fiber connections</p>	