Standard Top-of-Rack Ethernet Switches

Technical Specifications

Supermicro offers the latest in cost-effective Top-of-Rack Ethernet switching technology with a line of traditional fully-featured models incorporating both hardware and software in a complete solution. These standard switches provide connectivity for a range of computing and storage systems from 1 Gbps to 100 Gbps with support for the most popular industry-standard Layer 2 and 3 Ethernet switch features.

	10G RJ45 and 40GQSPF+	10G SFP+ and 40GQSFP+	10G SFP+ and 100G QSFP28	25G SFP28 and 100GQSFP28
				
	SSE-X3348T(R)	SSE-X3348S(R)	SSE-X3548S(R)	SSE-F3548S(R)
Port Specifications	• 48 x Ten-Gigabit Ethernet ports - 10GBASE-T RJ45 connectors • 4 x Forty-Gigabit Ethernet ports - QSFP+ Connectors • 2 x One-Gigabit Ethernet ports - RJ45 Connectors • Out-of-band RS-232 Management port - DB9 Connector	• 48 x Ten-Gigabit Ethernet ports - SFP+ Connectors • 4 x Forty-Gigabit Ethernet ports - QSFP+ Connectors • 2 x One-Gigabit Ethernet ports - RJ45 Connectors • Out-of-band RS-232 Management port - DB9 Connector	• 48 x Ten-Gigabit Ethernet ports - SFP+ Connectors • 6 x Forty/One-Hundred-Gigabit Ethernet ports - QSFP28 Connectors • 2 x RJ45 Ports - One-Gigabit Ethernet Management port - RS.232 serial Console Port	• 48 x Ten/Twenty-Five-Gigabit Ethernet ports - SFP28 Connectors • 6 x Forty/One-Hundred-Gigabit Ethernet ports - QSFP28 Connectors • 2 x RJ45 Ports - One-Gigabit Ethernet Management port - RS.232 serial Console Por
Switching Capacity	1284 Gb/s	1284 Gb/s	2100 Gb/s	3600 Gb/s
RoCE/ Datacenter Bridging/ Storage Support	-	-	• PFC/Per-Priority Flow Control (802.1Qbb) • Enhanced Transmission Selection (802.1Qaz) • Datacenter Bridging Extensions (DCBX) • Explicit Congestion Notification (ECN)*	• PFC/Per-Priority Flow Control (802.1Qbb) • Enhanced Transmission Selection (802.1Qaz) • Datacenter Bridging Extensions (DCBX) • Explicit Congestion Notification (ECN)*
Power and Cooling	• 357W (Redundant Power Supplies) • Reverse airflow model available	• 326W (Redundant Power Supplies) • Reverse airflow model available	• 410W (Redundant Power Supplies) • Reverse airflow model available	• 410W (Redundant Power Supplies) • Reverse airflow model available
Weight	18.1 lbs / 8.2 kg	18.1 lbs / 8.2 kg	19.6 lbs / 8.9 kg	19.6 lbs / 8.9 kg
Dimensions (WxDxH)	438 x 473 x 43 mm (17.3"x 18.6"x 1.7")	438 x 473 x 43 mm (17.3"x 18.6"x 1.7")	445 x 510 x 44 mm (17.52"x 20.1"x 1.73")	445 x 510 x 44 mm (17.52"x 20.1"x 1.73")

Common Features

Availability	• Virtual Redundant Routing Protocol (VRRP)	• Multichassis Link Aggregation (MLAG)	• Link Aggregation: 802.3ad with LACP- Up to 8 ports per group	
VLAN	• 802.1Q tagging, port and protocol based	• 4K Static VLANs	• Dynamic VLAN Support (GVRP)	
Quality of Service and DiffServ	• 8 priority queues per port • Adjusted WRR and Strict Priority Scheduling	• Marking • Metering / Rate limiting	• Layer 2, 3, 4 Prioritization	
Security Features	• Switch access password protection	• RADIUS and TACACS+ Authentication • SSL Encryption	• Layer 2, 3, 4 Access Control Lists (256 rules)	
Management	• Management interfaces -HTTP/HTTPS -Telnet (up to 7 sessions) -SNMP -SSH	• Industry standard CLI with telnet, SSH, or local management port -Scripting capability -Command completion -Context-sensitive "Help"	• RESTCONF, REST client API, OpenConfig (SSE-F3548S(R) only)	
Switch Features	• Link Layer Discovery Protocol (802.1AB) • Jumbo Frames up to 9KB	• Port Mirroring - N to 1. Tx & Rx Configurable	• Spanning Tree (802.1D) • Multiple Spanning Trees (802.1s) • Rapid Spanning Tree (802.1w)	
Routing Features	• Static Routing, RIP v1/v2, RIPng, OSPF v1/v2/v3 and BGP • IPv4 and IPv6 Routing [SSE-F3548S(R) and SSE-X3548S(R) do not support IPv6]			
Multicast	• IGMP Snooping v1, v2, v3	• IGMP v1, v2, v3	• PIM SM, PIM DM	• PIM SMv6
Operating Temperature	0° ~ 47°C			

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High Speed Direct Attach Copper Cables

Part Number	Description
CBL-NTWK-0347	Twinax copper cable, 1.0M, 10GbE SFP+ TO SFP+
CBL-0456L	Twinax copper cable, 2.0M, 10GbE SFP+ TO SFP+
CBL-NTWK-0456	Twinax copper cable, 2.0M, 10GbE SFP+ TO SFP+
CBL-0348L	Twinax copper cable, 3.0M, 10GbE SFP+ TO SFP+
CBL-0349L	Twinax copper cable, 5.0M, 10GbE SFP+ TO SFP+
CBL-NTWK-0944-MS28C10M	Twinax copper cable, 1.0M 25GbE, SFP28 to SFP28
CBL-NTWK-0944-MS28C15M	Twinax copper cable, 1.5M 25GbE, SFP28 to SFP28
CBL-NTWK-0944-MS28C20M	Twinax copper cable, 2.0M 25GbE, SFP28 to SFP28
CBL-NTWK-0944-MS28C25M	Twinax copper cable, 2.5M 25GbE, SFP28 to SFP28
CBL-NTWK-0944-MS28C30M	Twinax copper cable, 3.0M 25GbE, SFP28 to SFP28
CBL-NTWK-0325-02	Twinax copper cable, 2.0M, 40 GbE QSFP+ to QSFP+
CBL-NTWK-0417-01	Twinax copper cable, 1.0M, 40 GbE QSFP+ to QSFP+
CBL-NTWK-0422-01	Twinax copper cable, 5.0M, 40 GbE QSFP+ to QSFP+
CBL-NTWK-0446-01	Twinax copper cable, 3.0M, 40 GbE QSFP+ to QSFP+
CBL-NTWK-0942-MQ28C05M	Twinax copper cable, 0.5M100GbE,QSFP28 to QSFP28
CBL-NTWK-0944-MS28C05M	Twinax copper cable, 0.5M100GbE,QSFP28 to QSFP28
CBL-NTWK-0942-MQ28C10M	Twinax copper cable, 1.0M100GbE,QSFP28 to QSFP28
CBL-NTWK-0943-SQ28C10M	Twinax copper cable, 1.0M100GbE,QSFP28 to QSFP28
CBL-NTWK-0942-MQ28C15M	Twinax copper cable, 1.5M100GbE,QSFP28 to QSFP28
CBL-NTWK-0942-MQ28C20M	Twinax copper cable, 2.0M100GbE,QSFP28 to QSFP28
CBL-NTWK-0942-MQ28C25M	Twinax copper cable, 2.5M100GbE,QSFP28 to QSFP28
CBL-NTWK-0942-MQ28C30M	Twinax copper cable, 3.0M100GbE,QSFP28 to QSFP28

Splitter Cables

Part Number	Description
CBL-NTWK-0719	Twinax copper cable, 1.0M,40GbE/QSFP+ to 4x 10GbE/ SFP+, 25AWG
CBL-NTWK-0720	Twinax copper cable, 3.0M,40GbE/QSFP+ to 4x 10GbE/ SFP+, 30AWG
CBL-NTWK-0721	Twinax copper cable, 5.0M,40GbE/QSFP+ to 4x 10GbE/ SFP+, 25AWG
CBL-NTWK-0988-Q28M1	Twinax copper cable,1.0M,100GbE/QSFP28 to 4x 25GbE/ SFP28, 30AWG
CBL-NTWK-0932-Q4S2M	Twinax copper cable, 2.0M,100GbE/QSFP28 to 4x 25GbE/ SFP28,25AWG
CBL-NTWK-0988-Q28M3	Twinax copper cable,3.0M,100GbE/QSFP28 to 4x 25GbE/ SFP28,30AWG
CBL-NTWK-0988-QS28C30M-2	Twinax copper cable,3.0M,100GbE/QSFP28 to 4x 25GbE/ SFP28,25AWG
CBL-NTWK-0988-Q28M5	Twinax copper cable,5.0M,100GbE/QSFP28 to 4x 25GbE/ SFP28,26AWG

Transceivers

Part Number	Description
AOC-E10GSFPSR	SFP+Transceiver for use with 10GbE fiber cable connections, 850nm, MMF, LC
AOM-AQS-107-B0C2-CX	SFP+ to RJ45 Interface Converter
AOM-SFP28-25GbE-SR-1-MLN	SFP28 Transceiver for use with 25GbE fiber cable connections, 850nm, MMF, LC
AOM-TQSFP-79EQDZ-AVG	QSFP+Transceiver for use with 40GbE fiber cable connections, 850nm, MMF, LC
TRX-100GbE-SR4-FIN	QSFP28 Transceiver for use with 100GbE fiber cable connections, 850nm, MMF, LC

Optional Rail Kit

For Secure Rack-Mount of 10G Switches *SSE-X3348S(R)* and *SSE-X3348T(R)*

- CSE-PT52L

The above lists of compatible cables and transceivers sold by Supermicro are accurate as of the time of this printing. The latest list can be found on our website: www.supermicro.com. In general, our Ethernet switches can operate with the appropriate cable or transceiver from any reputable supplier. If you require a particular one not on this list and would like for us to validate it before making a purchase, please advise your Supermicro sales representative. We will be happy to arrange compatibility testing.

Headquarters
Super Micro Computer, Inc.
980 Rock Ave.
San Jose, CA 95131, USA
Tel: +1-408-503-8000
Fax: +1-408-503-8008
E-mail: Marketing@Supermicro.com

Europe Subsidiary
Super Micro Computer, B.V.
Het Sterrenbeeld 28, 5215 ML,
's-Hertogenbosch, The Netherlands
Tel: +31-73-640-0390
Fax: +31-73-641-6525
E-mail: Marketing@Supermicro.nl

Asia Subsidiary
Super Micro Computer, Inc. (Taiwan Office)
4F., No. 232-1, Liancheng Road,
Chung-Ho, New Taipei City 235, Taiwan
Tel: +886-2-8226-3990
Fax: +886-2-8226-3991
E-mail: Marketing@Supermicro.com.tw

Supermicro Science & Technology Park
No. 1899, Xingfeng Road, Bade City,
Taoyuan County 334, Taiwan
Tel: +886-2-8226-3990
Fax: +886-2-8226-3991
E-mail: Marketing@Supermicro.com.tw

China Subsidiary
Super Micro Computer, Inc. (Beijing Office)
Suite 1208 JiaHua Building D
Shangdi, Haidian District, Beijing
China 100085
Tel: +86-10-62969165
E-mail: Marketing@Supermicro.com

Super Micro Computer, Inc. (Shanghai Office)
Room 1604, Huizhi Building, No 398
Cao Xi Road. North, Xuhui District,
Shanghai, China 200030
Tel: 021-61152558
E-mail: Marketing@Supermicro.com

www.supermicro.com/networking

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