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 1Gbps to 100 Gbps with support for the most popular industry-standard Layer 2 and 3 Ethernet switch features.

### Technical Specifications

**Dimensions**

- **SSE-X3348T(R)**: 438 x 473 x 43 mm (17.3” x 18.6” x 1.7”)
- **SSE-X3348S(R)**: 438 x 473 x 43 mm (17.3” x 18.6” x 1.7”)
- **SSE-X3548S(R)**: 445 x 510 x 44 mm (17.5” x 20.1” x 1.73”)
- **SSE-F3548S(R)**: 445 x 510 x 44 mm (17.5” x 20.1” x 1.73”)

**Port Specifications**

- **SSE-X3348T(R)**: 48 x Ten-Gigabit Ethernetports
  - 10GbASE-T RJ45 connectors
  - 4 x Forty-Gigabit Ethernetports - QSFP+ Connectors
  - 2 x One-Gigabit Ethernetports - RJ45 Connectors
  - Out-of-band RS-232 Management port - DB9 Connector
- **SSE-X3348S(R)**: 48 x Ten-Gigabit Ethernetports
  - SFP+ Connectors
  - 4 x Forty-Gigabit Ethernetports - QSFP+ Connectors
  - 2 x One-Gigabit Ethernetports - RJ45 Connectors
  - Out-of-band RS-232 Management port - DB9 Connector
- **SSE-X3548S(R)**: 48 x Ten-Gigabit Ethernetports
  - SFP+ Connectors
  - 4 x Forty-One-Hundred-Gigabit Ethernetports - QSFP28 Connectors
  - 2 x RJ45 Ports
  - One-Gigabit Ethernet Management port - RS-232 serial Console Port
- **SSE-F3548S(R)**: 48 x Ten-Twenty-Five-Gigabit Ethernetports
  - SFP28 Connectors
  - 6 x Forty-One-Hundred-Gigabit Ethernetports - QSFP28 Connectors
  - 2 x RJ45 Ports
  - One-Gigabit Ethernet Management port - RS-232 serial Console Port

**Switching Capacity**

- **SSE-X3348T(R)**: 1284 Gb/s
- **SSE-X3348S(R)**: 1284 Gb/s
- **SSE-X3548S(R)**: 2100 Gb/s
- **SSE-F3548S(R)**: 3600 Gb/s

**RoCE/ Datacenter Bridging/ Storage Support**

- **SSE-X3348T(R)**: -
- **SSE-X3348S(R)**: -
- **SSE-X3548S(R)**: -
- **SSE-F3548S(R)**: -

**Power and Cooling**

- **SSE-X3348T(R)**: 357W (Redundant Power Supplies)
- **SSE-X3348S(R)**: 326W (Redundant Power Supplies)
- **SSE-X3548S(R)**: 410W (Redundant Power Supplies)
- **SSE-F3548S(R)**: 410W (Redundant Power Supplies)

**Weight**

- **SSE-X3348T(R)**: 18.1 lbs / 8.2 kg
- **SSE-X3348S(R)**: 18.1 lbs / 8.2 kg
- **SSE-X3548S(R)**: 19.6 lbs / 8.9 kg
- **SSE-F3548S(R)**: 19.6 lbs / 8.9 kg

**Operating Temperature**

- 0° - 43°C

### Features

- **Availability**
  - Virtual Redundant Routing Protocol (VRRP)
  - Multichassis Link Aggregation (MLAG)
  - Link Aggregation: B02. 3ad with LACP. Up to 8 ports per group
- **VLAN**
  - B02. 1Q tagging, port and protocol based
  - 4K Static VLANs
  - Dynamic VLAN Support (QVP)
- **Quality of Service and DiffServ**
  - 8 priority queues per port
  - Adjusted WRR and Strict Priority Scheduling
  - Marking
  - Metering / Ratelimiting
  - 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)
  - SSH
  - RESTCONF, REST Client API, OpenConfig (SSE-F3548S(R) only)
- **Switch Features**
  - Link Layer Discovery Protocol (B02. 1AB)
  - Jumbo Frames up to 9KB
  - Port Mirroring - up to 1. Tails Rx Configurable
- **Routing Features**
  - Static Routing, RIP v1/v2, BGP, OSPF, VRRP
  - IPv4 and IPv6 Routing (SSE-F3548S(R) and SSE-X3548S(R) do not support IPv4)
- **Multicast**
  - IGMP Snooping v1, v2, v3
  - PIM SM, PIM DM
  - PIM Sparse
- **Operating Temperature**
  - 0° - 43°C
# Standard Top-of-Rack Ethernet Switches

## HighSpeed Direct Attach Copper Cables

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBL-NFW-0147</td>
<td>Twinax copper cable, 1.0M, 10Gbe SFP+ to SFP+</td>
</tr>
<tr>
<td>CBL-NFW-0456</td>
<td>Twinax copper cable, 2.0M, 10Gbe SFP+ to SFP+</td>
</tr>
<tr>
<td>CBL-NFW-0495</td>
<td>Twinax copper cable, 2.0M, 10Gbe SFP+ to SFP+</td>
</tr>
<tr>
<td>CBL-0348L</td>
<td>Twinax copper cable, 3.0M, 10Gbe SFP+ to SFP+</td>
</tr>
<tr>
<td>CBL-NFW-0494-M25K10M</td>
<td>Twinax copper cable, 5.0M, 10Gbe SFP+ to SFP+</td>
</tr>
<tr>
<td>CBL-NFW-0494-M25K20M</td>
<td>Twinax copper cable, 2.0M, 25Gbe SFP28 to SFP28</td>
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<tr>
<td>CBL-NFW-0494-M25K25M</td>
<td>Twinax copper cable, 2.5M, 25Gbe SFP28 to SFP28</td>
</tr>
<tr>
<td>CBL-NFW-0494-M25K30M</td>
<td>Twinax copper cable, 3.0M, 25Gbe SFP28 to SFP28</td>
</tr>
<tr>
<td>CBL-NFW-0325-02</td>
<td>Twinax copper cable, 2.0M, 40 Gbe QSFP+ to QSFP+</td>
</tr>
<tr>
<td>CBL-NFW-0417-01</td>
<td>Twinax copper cable, 1.0M, 40 Gbe QSFP+ to QSFP+</td>
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<tr>
<td>CBL-NFW-0422-01</td>
<td>Twinax copper cable, 5.0M, 40 Gbe QSFP+ to QSFP+</td>
</tr>
<tr>
<td>CBL-NFW-0446-01</td>
<td>Twinax copper cable, 3.0M, 40 Gbe QSFP+ to QSFP+</td>
</tr>
<tr>
<td>CBL-NFW-0402-M25K05M</td>
<td>Twinax copper cable, 0.5M, 10Gbe SFP28 to SFP28</td>
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<tr>
<td>CBL-NFW-0404-M25K10M</td>
<td>Twinax copper cable, 2.0M, 10Gbe SFP28 to SFP28</td>
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<tr>
<td>CBL-NFW-0404-M25K15M</td>
<td>Twinax copper cable, 1.5M, 10Gbe SFP28 to SFP28</td>
</tr>
<tr>
<td>CBL-NFW-0404-M25K20M</td>
<td>Twinax copper cable, 2.0M, 10Gbe SFP28 to SFP28</td>
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<tr>
<td>CBL-NFW-0404-M25K30M</td>
<td>Twinax copper cable, 3.0M, 10Gbe SFP28 to SFP28</td>
</tr>
</tbody>
</table>

## Splitter Cables

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBL-NFW-0719</td>
<td>Twinax copper cable, 1.0M, 10Gbe/QSFP+ to 4x 10Gbe/ SFP+, 25AWG</td>
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<tr>
<td>CBL-NFW-0720</td>
<td>Twinax copper cable, 1.0M, 10Gbe/QSFP+ to 4x 10Gbe/ SFP+, 30AWG</td>
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<tr>
<td>CBL-NFW-0721</td>
<td>Twinax copper cable, 1.0M, 10Gbe/QSFP+ to 4x 10Gbe/ SFP+, 25AWG</td>
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<tr>
<td>CBL-NFW-0888-Q28M1</td>
<td>Twinax copper cable, 1.0M, 100Gbe/QSFP28 to 4x 25Gbe/ SFP28, 30AWG</td>
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<tr>
<td>CBL-NFW-0888-Q28M3</td>
<td>Twinax copper cable, 1.0M, 100Gbe/QSFP28 to 4x 25Gbe/ SFP28, 30AWG</td>
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<tr>
<td>CBL-NFW-0888-Q28M5</td>
<td>Twinax copper cable, 1.0M, 100Gbe/QSFP28 to 4x 25Gbe/ SFP28, 25AWG</td>
</tr>
</tbody>
</table>

## Transceivers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-E10GFP58</td>
<td>SFP+ Transceiver for use with 10Gbe fiber cable connections, 850nm, MMF, LC</td>
</tr>
<tr>
<td>AOM-AQS-107-BOC3-CX</td>
<td>SFP+ to RJ45 Interface Converter</td>
</tr>
<tr>
<td>AOM-SFP28-25G-E1-MLH</td>
<td>SFP28 Transceiver for use with 25Gbe fiber connections, 850nm, MMF, LC</td>
</tr>
<tr>
<td>AOM-TQSEP-10GBDQ2-AVG</td>
<td>QSFP+ Transceiver for use with 40Gbe fiber connections, 850nm, MMF, LC</td>
</tr>
<tr>
<td>TRX-100G-FX4-FIN</td>
<td>QSFP+ Transceiver for use with 100Gbe fiber connections, 850nm, MMF, LC</td>
</tr>
</tbody>
</table>

## Optional Rail Kit

For Secure Rack Mount of 10G Switches SSE-X3348S(R) and SSE-X3348RT(R)
- CSE-PTS2L

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.

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