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.

**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
- **Out-of-band RS-232 Management port**
  - DB9 Connector

**Switching Capacity**
- 1284 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)*

**Power and Cooling**
- 357W (Redundant Power Supplies)
- Reverse airflow model available

**Weight**
- 18.1 lbs / 8.2 kg

**Dimensions (WxDxH)**
- 438 x 473 x 43 mm (17.3” x 18.6” x 1.7”)

**Common Features**
- Virtual Redundant Routing Protocol (VRRP)
- Multichassis Link Aggregation (MLAG)
- Link Aggregation: 802.3ad with LACP—Up to 8 ports per group
- 4K Static VLANs
- Dynamic VLAN Support (GVRP)
- 8 priority queues per port
- Adjusted WRR and Strict Priority Scheduling
- Marking
- Metering / Rate limiting
- Layer 2, 3, 4 Prioritization
- Switch access password protection
- RADIUS and TACACS+ Authentication
- SSL Encryption
- Layer 2, 3, 4 Access Control Lists (256 rules)
- Management interfaces
  - HTTP/HTTPS
  - Telnet (up to 7 sessions)
  - SNMP
  - SSH
  - RESTCONF, REST client API, OpenConfig (SSE-F3548S(R) only)
- 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)
- IGMP Snooping v1, v2, v3
  - IGMP v1, v2, v3
  - PIM SSM, PIM DM
  - PIM SMv6
- 0° ~ 43°C
## High Speed Direct Attach Copper Cables

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBL-NTWK-0347</td>
<td>Twinax copper cable, 1.0M, 10GbE SFP+ to TOSFP+</td>
</tr>
<tr>
<td>CBL-0456L</td>
<td>Twinax copper cable, 2.0M, 10GbE SFP+ to TOSFP+</td>
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<tr>
<td>CBL-NTWK-0456</td>
<td>Twinax copper cable, 2.0M, 10GbE SFP+ to TOSFP+</td>
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<td>CBL-0348L</td>
<td>Twinax copper cable, 3.0M, 10GbE SFP+ to TOSFP+</td>
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<tr>
<td>CBL-0349L</td>
<td>Twinax copper cable, 5.0M, 10GbE SFP+ to TOSFP+</td>
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<tr>
<td>CBL-0444-M528C15M</td>
<td>Twinax copper cable, 1.5M 25GbE, SFP28 to SFP28</td>
</tr>
<tr>
<td>CBL-0444-M528C20M</td>
<td>Twinax copper cable, 2.0M 25GbE, SFP28 to SFP28</td>
</tr>
<tr>
<td>CBL-0444-M528C25M</td>
<td>Twinax copper cable, 2.5M 25GbE, SFP28 to SFP28</td>
</tr>
<tr>
<td>CBL-0444-M528C30M</td>
<td>Twinax copper cable, 3.0M 25GbE, SFP28 to SFP28</td>
</tr>
<tr>
<td>CBL-NTWK-0325-02</td>
<td>Twinax copper cable, 2.0M, 40 GbE QSFP+ to QSFP+</td>
</tr>
<tr>
<td>CBL-0417-01</td>
<td>Twinax copper cable, 1.0M, 40 GbE QSFP+ to QSFP+</td>
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<tr>
<td>CBL-NTWK-0422-01</td>
<td>Twinax copper cable, 5.0M, 40 GbE QSFP+ to QSFP+</td>
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<tr>
<td>CBL-0444-M528C15M</td>
<td>Twinax copper cable, 1.5M 100GbE, QSFP28 to QSFP28</td>
</tr>
<tr>
<td>CBL-0444-M528C20M</td>
<td>Twinax copper cable, 2.0M 100GbE, QSFP28 to QSFP28</td>
</tr>
<tr>
<td>CBL-0444-M528C25M</td>
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</tr>
<tr>
<td>CBL-0444-M528C30M</td>
<td>Twinax copper cable, 3.0M 100GbE, QSFP28 to QSFP28</td>
</tr>
<tr>
<td>CBL-NTWK-0988-Q28M1</td>
<td>Twinax copper cable, 1.0M, 100GbE/QSFP28 to 4x 25GbE/ SFP28, 30AWG</td>
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<tr>
<td>CBL-NTWK-0932-Q4S2M</td>
<td>Twinax copper cable, 2.0M, 100GbE/QSFP28 to 4x 25GbE/ SFP28, 25AWG</td>
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<tr>
<td>CBL-NTWK-0988-Q28M3</td>
<td>Twinax copper cable, 3.0M, 100GbE/QSFP28 to 4x 25GbE/ SFP28, 30AWG</td>
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</table>

## Splitter Cables

<table>
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<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>CBL-NTWK-0719</td>
<td>Twinax copper cable, 1.0M, 40GbE/QSFP+ to 4x 10GbE/ SFP+, 25AWG</td>
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<tr>
<td>CBL-NTWK-0720</td>
<td>Twinax copper cable, 2.0M, 40GbE/QSFP+ to 4x 10GbE/ SFP+, 30AWG</td>
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<tr>
<td>CBL-NTWK-0721</td>
<td>Twinax copper cable, 3.0M, 40GbE/QSFP+ to 4x 10GbE/ SFP+, 25AWG</td>
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<tr>
<td>CBL-NTWK-0898-Q28M1</td>
<td>Twinax copper cable, 1.0M, 100GbE/QSFP28 to 4x 25GbE/ SFP28, 30AWG</td>
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<tr>
<td>CBL-NTWK-0893-Q4S2M</td>
<td>Twinax copper cable, 2.0M, 100GbE/QSFP28 to 4x 25GbE/ SFP28, 25AWG</td>
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<tr>
<td>CBL-NTWK-0898-Q28M3</td>
<td>Twinax copper cable, 3.0M, 100GbE/QSFP28 to 4x 25GbE/ SFP28, 30AWG</td>
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</tbody>
</table>

## Transceivers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>AOC-E10GSPS8</td>
<td>SFP+ Transceiver for use with 10GbE fiber cable connections, 850nm, MMF, LC</td>
</tr>
<tr>
<td>AOM-AQS-107-BC2-CX</td>
<td>SFP+ to RJ45 Interface Converter</td>
</tr>
<tr>
<td>AOM-SFP28-25G-E8-1-MLN</td>
<td>QSFP28 Transceiver for use with 25GbE fiber cable connections, 850nm, MMF, LC</td>
</tr>
<tr>
<td>AOM-TOSFP-750Q2Z-AVG</td>
<td>QSFP+ Transceiver for use with 40GbE fiber cable connections, 850nm, MMF, LC</td>
</tr>
<tr>
<td>TRX-100G-SR4-FIN</td>
<td>QSFP28 Transceiver for use with 100GbE fiber cable connections, 850nm, MMF, LC</td>
</tr>
</tbody>
</table>

## Optional Rail Kit

- 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](http://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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[www.supermicro.com/networking](http://www.supermicro.com/networking)