Unlock the potential of your 10G/Multi-Gig devices

The XS505M and XS508M come with Copper Ethernet ports that provide either FastEthernet, 1-Gigabit, 2.5-Gigabit, 5-Gigabit or 10-Gigabit connectivity, as well as 1 SFP+ Fiber port with 1-Gigabit or 10-Gigabit connectivity.

Each port automatically detects which speed is needed by the connected device and provides the adequate speed. As opposed to regular 10-Gigabit switches that will only provide 1-Gigabit connectivity to any device that require less than 10-Gigabit, the XS505M gives the exact speed required, no downgrade. Also, the new NETGEAR Multi-speed switch ports can be connected with regular Cat5E Ethernet cables, without the need to upgrade to Cat6 wiring, therefore reducing wiring costs and hassle.

Highlights

**Multi-Speed Technology**
- Expand your network instantly, and give your devices either 100Mb, 1, 2.5, 5 or 10 Gigabit, automatically

**Plug and Play**
- Simple set up with no software or configuration needed

**Flexible Mounting**
- Rackmount or Desktop Switches

**SFP+ Port**
- One SFP+ Fiber port with 1-Gigabit or 10-Gigabit connectivity - Ideal for high-speed uplink connectivity to your core network

**High Quality and Reliable Performance**
- Durable metal case and long product life (shown by MTBF numbers)

**Whisper Quiet**
- Whisper Quiet switch with an active fan

**Industry leading warranty**
- Lifetime 24/7 Technical Support
- Limited Lifetime* Hardware Warranty
Hardware at a Glance

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Form-Factor</th>
<th>10-Gig/Multi-Gig Copper Ports</th>
<th>Internal Power Supply</th>
<th>10G SFP+ Ports</th>
<th>LEDs</th>
<th>Case Material</th>
<th>Fans</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS505M</td>
<td>Rackmount/ Desktop</td>
<td>4</td>
<td>Yes</td>
<td>1</td>
<td>Power, Fan, Port Link/Speed/ Activity</td>
<td>Metal</td>
<td>Active Fan</td>
</tr>
<tr>
<td>XS508M</td>
<td>Rackmount/ Desktop</td>
<td>7¹</td>
<td>Yes</td>
<td>1 x 10G/1G SFP+ and Copper (combo)</td>
<td>Power, Fan, Port Link/Speed/ Activity</td>
<td>Metal</td>
<td>Active Fan</td>
</tr>
</tbody>
</table>

XS505M
- 4 x 10-Gig/Multi-Gig Copper Ports
- 1 x SFP+ Ports
- 19-inch Rackmountable

XS508M
- 7¹ x 10-Gig/Multi-Gig Copper Ports
- 1 x 10G/1G SFP+ and Copper (combo)
- 19-inch Rackmountable

Performance at a Glance

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Fabric</th>
<th>Packet buffer</th>
<th>Latency (Max Connection Speed)</th>
<th>VLANS</th>
<th>MAC Address Table</th>
<th>Priority Queues</th>
<th>Multicast IGMP Group</th>
<th>Packet Forwarding Rate (64 byte)</th>
<th>Jumbo Frames (bytes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS505M</td>
<td>100 Gbps line-rate</td>
<td>128KB</td>
<td>10Gbps: 4.845us 1000Mbps: &lt;4us 100Mbps: &lt;6us</td>
<td>N/A</td>
<td>2K Entries (dynamic)</td>
<td>8 (WRR)</td>
<td>N/A</td>
<td>10Gbps: 14,880,952fps 5Gbps: 7,440,476fps</td>
<td>up to 9K</td>
</tr>
<tr>
<td>XS508M</td>
<td>160 Gbps line-rate</td>
<td>128KB</td>
<td>10Gbps: 4.913us 1000Mbps: &lt;4us 100Mbps: &lt;6us</td>
<td>N/A</td>
<td>2K Entries (dynamic)</td>
<td>8 (WRR)</td>
<td>N/A</td>
<td>2500Mbps: 3,720,238fps 1000Mbps: 1,488,095fps 100Mbps: 148,810fps</td>
<td>up to 9K</td>
</tr>
</tbody>
</table>

¹ Port #8 is a combo Port
Example Application

XS505M/XS508M in a Business Environment

Cables and Speed

The following table describes the network cables that you can use for the switch connections and the speeds that these cables can support, up to 100 meters (328 feet).

<table>
<thead>
<tr>
<th>SPEED</th>
<th>CABLE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>100Mbps</td>
<td>Category 5 (Cat 5) or higher rated</td>
</tr>
<tr>
<td>1Gbps, 2.5Gbps, or 5Gbps</td>
<td>Category 5e (Cat 5e) or higher rated</td>
</tr>
<tr>
<td>10Gbps</td>
<td>Category 6A (Cat 6A) or higher rated</td>
</tr>
</tbody>
</table>

Note: For speeds of 10 Gbps, if the cable length is shorter than 45 meters (148 feet), you can use a Cat 5e cable.

Why the NETGEAR 10-Gig/Multi-Gig Switches are ideal for SMB

1. Plug-and-play, automatic connectivity to your router or modem of 4 additional wired connections. No need for an IT expert!
2. Expand your network instantly, and give your devices either 100Mb, 1, 2.5, 5 or 10-Gigabit, automatically.
3. Small and silent desktop or rackmount form factor for quiet operation - Adapts to your needs and configuration in any environment.
4. Limited lifetime* warranty, Next Business Day replacement and 24/7 chat with a NETGEAR expert.
5. Energy efficient switches that automatically adjust power consumption according to the link status and cable length.
Technical Specifications

<table>
<thead>
<tr>
<th>XS505M</th>
<th>XS508M</th>
</tr>
</thead>
<tbody>
<tr>
<td>100M/1G/2.5G/5G/10G RJ-45 copper ports</td>
<td>4</td>
</tr>
<tr>
<td>10G SFP+ ports</td>
<td>1</td>
</tr>
</tbody>
</table>

Form Factor
- XS505M: Desktop/Rackmount
- XS508M: Desktop/Rackmount

Performance Specification
- Packet buffer memory: 128KB
- Forwarding modes: Store-and-forward
- Bandwidth: 100Gbps, 160Gbps
- MAC Address database size: 2K
- Packet forwarding rate:
  - 10Gbps: 14,880,952fps
  - 5Gbps: 7,440,476fps
  - 2500Mbps: 3,720,238fps
  - 1000Mbps: 1,488,095fps
  - 100Mbps: 148,810fps
- Jumbo frame support: Up to 9K packet size
- Acoustic noise level @ 25°C (dBA) (ANSI-S10.12): 22.5
- Mean Time Between Failures (MTBF) @ 25°C:
  - XS505M: 1093237 hours
  - XS508M: 1145157 hours

Power/Energy Efficiency
- 802.1p-based QoS/CoS Supported: Yes
- Auto Power Down: Yes
- Short Cable Detection/Power Saving: Yes

Quality of Service (QoS)
- IEEE 802.3az (Energy Efficient Ethernet): Yes
- Honors DSCP (DiffServ) Tags: Yes
- Weighted Round Robin (WRR): Yes
- Priority Queues: 8

IEEE Network Protocols
- IEEE 802.3 Ethernet
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3x Full-Duplex Flow Control
- IEEE 802.1p Class of Service
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- IEEE 802.3an 10GBASE-T
- IEEE 802.3bz 5Gbps and 2.5Gbps Ethernet Over Copper Twisted Pair Cable
- IEEE 802.3ae 10-Gigabit Ethernet Over Fiber
- IEEE 802.3aq 10-Gigabit over Fiber (10GBASE-LRM)
- IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX

LEDs
- Per port: Speed, Link, Activity
- Per device: Power and Fan
<table>
<thead>
<tr>
<th>Physical Specifications</th>
<th>XS505M</th>
<th>XS508M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x D x H)</td>
<td>328 x 169 x 43.2 mm (12.91 x 6.65 x 1.7 in)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1.38kg</td>
<td>1.49kg</td>
</tr>
</tbody>
</table>

### Power Consumption

<table>
<thead>
<tr>
<th></th>
<th>XS505M</th>
<th>XS508M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>Fixed internal PSU, 100-240VAC, 50-60Hz, 1A max Power cord localized to country of sale</td>
<td>Fixed internal PSU, 100-240VAC, 50-60Hz, 1.5A max Power cord localized to country of sale</td>
</tr>
<tr>
<td>Max power (worst case, all ports used, line-rate traffic) (Watts)</td>
<td>22.5W</td>
<td>39W</td>
</tr>
<tr>
<td>Min power (link-down standby) (Watts)</td>
<td>12.25</td>
<td>21.31</td>
</tr>
<tr>
<td>Heat Dissipation (max and min) (BTU/hr)</td>
<td>85.3/46.4</td>
<td>147.86/80.8</td>
</tr>
<tr>
<td>Fan(s)</td>
<td>x1</td>
<td>x1</td>
</tr>
</tbody>
</table>

### Environmental Specifications

#### Operating

| Operating Temperature | 0° to 50°C (32° to 122°F) |
| Humidity (relative)   | 95% maximum relative humidity (RH), non-condensing |
| Altitude              | 10,000 ft (3,000 m) maximum |

#### Storage

| Storage Temperature   | -20° to 70°C (-4° to 158°F) |
| Humidity (relative)   | 95% maximum relative humidity (RH), non-condensing |
| Altitude              | 10,000 ft (3,000 m) maximum |

### Electromagnetic Emissions and Immunity

#### Certifications

- 47 CFR FCC Part 15, SubpartB, Class B
- ICES-003:2016 Issue 6, Class B
- ANSI C63.4:2014
- EN 55032:2012+AC2013, Class B
- EN 55024:2010
- EN 61000-3-2:2014, Class B
- EN 61000-3-3:2013
- AS/NZS CISPR 32:2015, Class B
- VCCI V-3/2015.04, Class B
- V-4/2012.4
- Korea KC mark
- CNS 13438

#### Electromagnetic Compliance

- USA / IC: FCC 15B (Class B) + ICES -003
- CE/AUS/NZ: EN55032/24 + CISPR 32
- Japan: VCCI
- AUS/NZ: BSMI (CNS 13438)
- Taiwan: sDoC
- Korea: KCC
## Safety Certifications

<table>
<thead>
<tr>
<th>Certifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE: CB 60950-1, LVD 60950-1</td>
</tr>
<tr>
<td>AUS/NZ: AS/NZS 60950-1</td>
</tr>
<tr>
<td>USA: UL 60950-1, SNE VA</td>
</tr>
<tr>
<td>Taiwan: BSMI (CNS 14336-1)</td>
</tr>
</tbody>
</table>

## Warranty and Support

<table>
<thead>
<tr>
<th>Warranty and Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited Lifetime* Warranty</td>
</tr>
<tr>
<td>Lifetime 24x7 Online Technical Support*</td>
</tr>
<tr>
<td>Lifetime Next-Business-Day (NBD) Replacement</td>
</tr>
<tr>
<td>ProSUPPORT OnCall 24x7 Service Packs**</td>
</tr>
<tr>
<td>Category 1: PMB0311 (1 yr.)</td>
</tr>
<tr>
<td>PMB0331 (3 yrs.)</td>
</tr>
<tr>
<td>PMB0351 (5 yrs.)</td>
</tr>
</tbody>
</table>

## Package Contents

<table>
<thead>
<tr>
<th>Package Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS505M or XS508M 10-Gigabit/Multi-Gigabit Ethernet Unmanaged Switch</td>
</tr>
<tr>
<td>Power cord (localized to country of sale)</td>
</tr>
<tr>
<td>Rackmount kit</td>
</tr>
<tr>
<td>Installation guide</td>
</tr>
<tr>
<td>Easy-Mount additional options (GS418TPP)</td>
</tr>
<tr>
<td>Mount for attachment to a wall, or rectangular pole</td>
</tr>
<tr>
<td>Rubber belts</td>
</tr>
<tr>
<td>Velcro straps</td>
</tr>
<tr>
<td>Power cord locker</td>
</tr>
</tbody>
</table>
Ordering Information

<table>
<thead>
<tr>
<th>Ordering Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS505M-100NAS</td>
</tr>
<tr>
<td>XS505M-100EUS</td>
</tr>
<tr>
<td>XS505M-100AJS</td>
</tr>
<tr>
<td>XS508M-100NAS</td>
</tr>
<tr>
<td>XS508M-100EUS</td>
</tr>
<tr>
<td>XS508M-100AJS</td>
</tr>
</tbody>
</table>

Optional Modules and Accessories

<table>
<thead>
<tr>
<th>Optional Modules and Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM731</td>
</tr>
<tr>
<td>AGM732F</td>
</tr>
<tr>
<td>AGM734</td>
</tr>
<tr>
<td>AXC761</td>
</tr>
<tr>
<td>AXC763</td>
</tr>
<tr>
<td>AXM761</td>
</tr>
<tr>
<td>AXM762</td>
</tr>
<tr>
<td>AXM763</td>
</tr>
<tr>
<td>AXM764</td>
</tr>
<tr>
<td>AXM765</td>
</tr>
</tbody>
</table>

* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies - not software or external power supplies; see http://www.netgear.com/about/warranty/ for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.

** The NETGEAR OnCall 24x7 contract provides unlimited phone and email technical support for your networking product.