



NETGEAR AXM765 Network Transceiver Module Installation Guide

[Home](#) » [NETGEAR](#) » NETGEAR AXM765 Network Transceiver Module Installation Guide 

Contents

- [1 NETGEAR AXM765 Network Transceiver Module](#)
- [2 Install the Module](#)
- [3 Remove the Module](#)
- [4 Technical Specifications](#)
- [5 Features](#)
- [6 Support](#)
- [7 FAQs](#)
- [8 Related Posts](#)

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NETGEAR AXM765 Network Transceiver Module

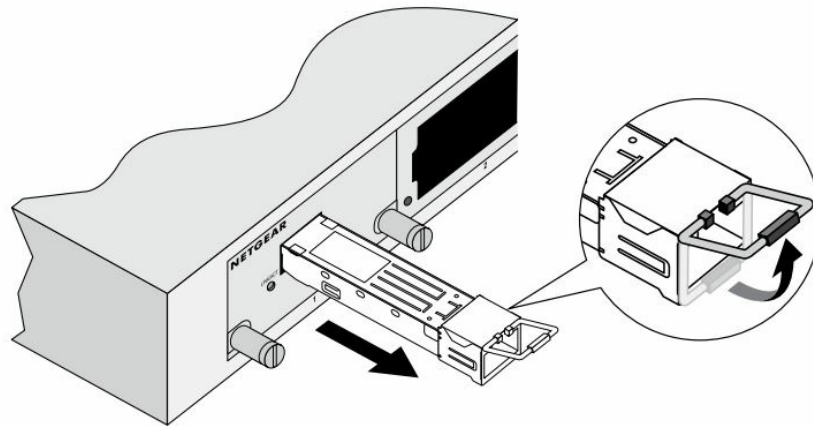


The AXM765 SFP+ module is a low-power, high-performance, multi-gigabit 10G/1000BASE-T transceiver. The AXM765 delivers 10 Gb network connectivity with cabling up to 98.5 feet (30 meters) and delivers 1 G network connectivity speed through 328 feet (100 meters) of Category 5e (Cat 5e) or Cat 6 Ethernet cable.

The module is compatible with the IEEE 802.3an/ab standard. The switch automatically detects the module, so you can simply plug it into an available module slot. You can insert or remove the module while the switch is operational.

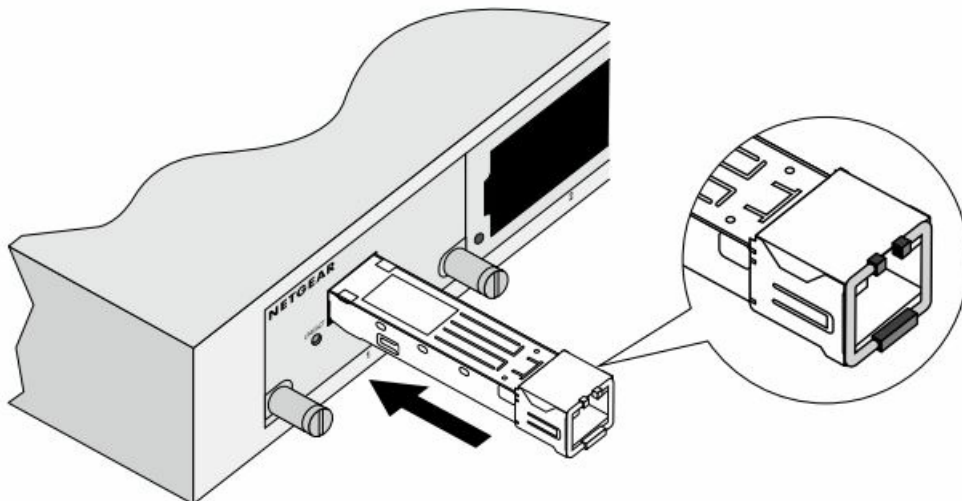
Install the Module

Insert the module firmly into a slot that supports the SFP+ interface. Make sure that the cable you use is Category 5e (Cat 5e) or a higher-rated Ethernet cable (Cat 6, Cat 6a, or Cat 7).



Remove the Module

1. To release the module latch, pull up the handlebar across the module.
2. Pull the module out of the module slot.



Technical Specifications

- **Standards** IEEE 802.3an, IEEE 802.3ab, SFF-8431 and SFF-8432 MSA-compliant
- **Dimensions (H x W x D)** 0.53 in. x 0.53 in. x 2.57 in. (13.7 mm x 13.4 mm x 65.4 mm)
- **Weight** 0.5 oz (14.17 g)
- **Operating temperature** 32–158°F (0–70°C)

- **Operative relative humidity** 85% at 77°F (25°C)
- **Operating distance** 10GBASE-T up to 98.5 ft (30 m) with Cat 6a (or higher rated) Ethernet cable; 1GBASE-T up to 328 ft (100 m) of Cat 5e (or higher rated) Ethernet cable
- **Connectors** RJ45
- **Power consumption** 2.5W
- **Safety certification** IEC/EN 60950-1, UL60950
- **Environmental compliance** RoHS

Features

- **10 Gigabit Ethernet Connectivity:** The AXM765 provides 10 Gigabit Ethernet connectivity over fiber optic cables, allowing for high-speed data transfer rates.
- **Hot-Swappable:** The module is hot-swappable, meaning it can be installed or removed from the switch without disrupting network traffic.
- **LC Duplex Connector:** The AXM765 uses an LC duplex connector interface for easy and secure connection to fiber optic cables.
- **Supports Multiple Distances:** The AXM765 supports distances of up to 300 meters over OM3 multimode fiber and up to 400 meters over OM4 multimode fiber.
- **IEEE 802.3ae 10GBASE-SR/SW Standard Compliant:** The AXM765 complies with the IEEE 802.3ae 10GBASE-SR/SW standard, ensuring compatibility with a wide range of networking equipment.
- **Digital Optical Monitoring (DOM) Support:** The AXM765 supports Digital Optical Monitoring (DOM), which allows real-time monitoring of the module's optical performance, including temperature, voltage, and optical power levels.
- **Low Power Consumption:** The AXM765 is designed to consume low power, making it an energy-efficient option for high-speed networking applications.
- **Reliable Performance:** The AXM765 is designed to provide reliable performance in a variety of network environments, including data centers, storage networks, and campus LAN environments.

Support

Thank you for purchasing this NETGEAR product. You can visit www.netgear.com/support to register your product, get help, access the latest downloads and user manuals, and join our community. We recommend that you use only official NETGEAR support resources. For the current EU Declaration of Conformity, visit <http://kb.netgear.com/11621>. For regulatory compliance information, visit <http://www.netgear.com/about/regulatory/>. See the regulatory compliance document before connecting the power supply.

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FAQs

What kinds of switches are compatible with the NETGEAR AXM765?

NETGEAR ProSAFE Managed Switches are compatible with the NETGEAR AXM765.

What is the AXM765 maximum supportable distance?

With OM3 multimode fiber, the AXM765 can support lengths of up to 300 meters, and with OM4 multimode fiber,

up to 400 meters.

How does hot-swapping work?

The term “hot-swapping” describes the capacity to add or remove a module or device from a system without shutting it down or interfering with network activity.

Support for Digital Optical Monitoring (DOM) by the AXM765?

The AXM765 does, in fact, feature the DOM capability, which enables in-depth monitoring of the optical performance of the module in real-time, including temperature, voltage, and optical power levels.

What is the LC duplex connection interface?

A fiber optic connector with a tiny form factor and a locking mechanism to ensure a secure connection is the LC duplex connector interface.

What is the 10GBASE-SR/SW IEEE 802.3ae standard?

A networking standard called IEEE 802.3ae 10GBASE-SR/SW describes a 10 Gigabit Ethernet connection over fiber optic lines.

What are the benefits of using the AXM765?

The AXM765 provides a cost-effective solution for upgrading your network infrastructure to 10 Gigabit Ethernet. It is easy to install and configure and provides high-performance and reliable connectivity for a variety of network applications.

Can I use OM3 and OM4 multimode fiber with the AXM765S?

The answer is that the AXM765 works with both OM3 and OM4 multimode fiber.

What does a transceiver module do?

Optical transceiver (transmitter and receiver) modules connect to routers, switches, and fiber host bus adapters (HBA) to transform data signals to and from laser optic light. They offer data transfer across fiber or optical connections between transceivers.

What ports make up the transceiver module's components?

A network device or computer's SFP port is a slot for small form-factor pluggable (SFP) transceivers to be attached. An SFP transceiver, sometimes referred to as an SFP module, is only a hot-swappable, pinky-sized metal component that permits data transfer when linked to another device through a cable.

What Exactly Is a Transceiver Module?

An optical or copper network is connected to the transceiver module's electrical circuitry by means of a transmitter and receiver combined into a single unit. The majority of transceiver modules also include hot-swappable input/output (I/O) ports that they insert into module sockets. As is common knowledge, equipment like routers, switches, and network interface card modules include one or more transceiver module slots (e.g., GBIC, SFP, XFP, etc.) where a transceiver module suitable for that connection can be inserted. The transceiver module's connection accepts the optical fiber or wire. For use with various fiber optic patch cable types, wavelengths, and transmission distances, there are several transceiver modules available.

What would cause me to utilize a transceiver module?

Although transceiver modules have various applications, their interchangeability is a key factor in their success. As an illustration, if your network makes use of a variety of optical technologies, you may buy transceiver modules as you need them rather than in advance, and they can be of the precise kind (wavelength) needed for each link. This accomplishes two goals: first, it decreases the up-front expenses of constructing your network, and second, it allows you more flexibility in the future when you want to extend it.

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