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NETGEAR AXM765-20000S Network Transceiver Module Specifications and Datasheet

Contents [hide]

NETGEAR AXM765-20000S Network Transceiver Module

Specifications

Performance

- **SFP transceiver type *** Fiber optic
- **Maximum data transfer rate *** 10000 Mbit/s
- **Interface type *** SFP+
- **Maximum transfer distance** 80 m
- **Networking standards IEEE** 802.3an, IEEE 802.3az
- **Product color** Grey
- **Operational** conditions
- **Operating temperature (T-T)** 0 – 70 °C

Operational conditions

- **Operating relative humidity (H-H)** 0 – 85%

Weight & dimensions

- Width 13.7 mm
- **Depth** 13.8 mm
- **Height** 68.8 mm
- **Weight** 14.17 g

Packaging data

- **Number of products included** 1 pc(s)

Logistics data

- Harmonized System (HS) code 85369010
- **Connector** RJ45

Product Description

The NETGEAR AXM765-20000S is a hot-swappable network transceiver module that is designed for use with NETGEAR ProSAFE Managed Switches. This module provides 10 Gigabit Ethernet connectivity over fiber optic cables and supports distances of up to 300 meters over OM3 multimode fiber and up to 400 meters over OM4 multimode fiber. The AXM765-20000S uses an LC duplex connector interface and supports both 850nm and 1310nm wavelengths. It is compliant with the IEEE 802.3ae 10GBASE-SR/SW standard and can be used in a variety of network applications, including data centers, storage networks, and campus LAN environments.

This module is hot-swappable, which means it can be installed or removed from the switch without powering down the switch or disrupting network traffic. It also supports Digital Optical Monitoring (DOM) functionality, which allows real-time monitoring of the module's optical performance, including temperature, voltage, and optical power levels. The AXM765-20000S is a high-performance and reliable network transceiver module that is designed to meet the demands of high-bandwidth networking applications. It is easy to install and configure and provides a cost-effective solution for upgrading your network infrastructure to 10 Gigabit Ethernet.

Features

- Connectivity for 10GBASE-T copper up to 80 meters (262.5 feet) away
- Fits into the SFP+ interfaces of the Managed Switches M4250, M4300, and M4500
- 10GBASE-T requires CAT6a or CAT7 wire up to 80 meters (262.5 ft).
- Complaint to IEEE 802.3i's SFF 8431 4.1, SFP+ Multisource Agreement (MSA), and 10GBASE-T standards
- RJ-45, Cat 6a, 10GBASE-T, 13.8×13.7×68.8 mm
- Fibre optic SFP transceiver, 10000 Mbit/s maximum data transmission rate, NETGEAR AXM765-20000S.
- SFP+ interface type. Grey is the product's color. Dimensions: 13.7 mm wide, 13.8 mm deep, and 68.8 mm tall. 1 piece(s) of merchandise is included.

FAQs

What type of switch is the NETGEAR AXM765-20000S compatible with?

The NETGEAR AXM765-20000S is compatible with NETGEAR ProSAFE Managed Switches.

What is the maximum distance that the AXM765-20000S can support?

The AXM765-20000S can support distances of up to 300 meters over OM3 multimode fiber and up to 400 meters over OM4 multimode fiber.

What is hot-swapping?

Hot-swapping refers to the ability to install or remove a module or device from a system without having to power down the system or disrupt network traffic.

Does the AXM765-20000S support Digital Optical Monitoring (DOM)?

Yes, the AXM765-20000S supports DOM functionality, which allows real-time monitoring of the module's optical performance, including temperature, voltage, and optical power levels.

What is the LC duplex connector interface?

The LC duplex connector interface is a type of fiber optic connector that uses a small form factor and features a locking mechanism to ensure a secure connection.

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

The IEEE 802.3ae 10GBASE-SR/SW standard is a networking standard that defines 10 Gigabit Ethernet connectivity over fiber optic cables.

What are the benefits of using the AXM765-20000S?

The AXM765-20000S 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.

Is the AXM765-20000S compatible with both OM3 and OM4 multimode fiber?

Yes, the AXM765-20000S is compatible with both OM3 and OM4 multimode fiber.

What is the purpose of the transceiver module?

Optical transceiver (transmitter and receiver) modules convert data signals to and from laser optic light and plug into routers, switches, and fiber host bus adapters (HBA). They provide the transmission of data between transceivers over fiber or optical cables.

Which ports are the components of the transceiver module?

An SFP port is a slot on a network device or computer into which small form-factor pluggable (SFP) transceivers are inserted. An SFP transceiver, also known as an SFP module, is just a hot-swappable, pinky-sized metal component that, when connected to another device using a cable, allows for the transmission of data.

What is Transceiver Module?

A Transceiver module is the combination of a transmitter and a receiver into a single device that acts to connect the electrical circuitry of the module with the optical or copper network. In addition, most transceiver modules are hot-swappable I/O (input/output) devices that plug into module sockets. As we know, devices such as routers, switches, or network interface card modules provide one or more transceiver module slots (e.g. GBIC, SFP, XFP, etc.), into which you can insert a transceiver module that is appropriate for that connection. The optical fiber, or wire, plugs into a connector on the transceiver module. There is a variety of transceiver modules available for use with different types of fiber optic patch cords, different wavelengths, and different transmission distances.

Why would I use a Transceiver Module?

Transceiver modules have many uses, but much of their success lies in their interchangeability. An example would be in the event that multiple different optical technologies are used in your network, you can purchase transceiver modules when required, rather than in advance, furthermore, these modules can be the specific type (wavelength) required for each link. This achieves 2 things; firstly it lowers the initial costs associated with building your network and then gives you greater flexibility in the future when expanding your network.

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