

Managed gigabit switches and fiber optic cables

Length:14.5mm
Small-end inner diameter:2.0mm
Large-end inner diameter:3.5mm
Outer diameter:5.2mm



Overview

Fast, Gigabit, and 10 Gigabit Ethernet Switches with SFP+ Modules Managed and unmanaged Layer 2 and Layer 3 fiber optic Ethernet switches. With 10G SFP+ fiber.

Key Takeaways

Yes, gigabit switches can use fiber optic cables, typically through SFP ports, though standard RJ45 ports use copper Ethernet cables.

Gigabit Switch Cabling Options

Gigabit switches primarily support copper Ethernet cables (Cat5e, Cat6, Cat6a) for speeds up to 1 Gbps, with distances generally limited to 100 meters for copper connections. However, many modern gigabit switches include SFP (Small Form-Factor Pluggable) ports, which are modular slots that can accept either fiber optic or copper transceivers. This allows the same switch to connect over short distances using copper or over long distances using fiber.

Fiber Optic Use Cases

Fiber optic connections are preferred when: Long-distance links are required, often several kilometers, far beyond the 100-meter limit of copper cables. High stability and low interference are needed, as fiber is immune to electromagnetic interference and reduces packet loss. Enterprise or campus networks require uplinks between switches or connections to data centers.



Fiber SF

P modules can support multimode or single-mode fiber, with distances ranging from hundreds of meters to tens of kilometers depending on the module type. Some switches also feature combo ports, allowing a single port to accept either copper or fiber, providing flexibility without replacing the switch.

Summary

While standard gigabit switches use copper Ethernet cables, fiber optic cables are commonly used through SFP ports for longer distances, higher reliability, and future-proofing network infrastructure. This modular approach allows networks to scale and adapt to different media types without replacing the entire switch.

Article Content

Fast, Gigabit, and 10 Gigabit Ethernet Switches with SFP+ Modules

Managed and unmanaged Layer 2 and Layer 3 fiber optic Ethernet switches. With 10G SFP+ fiber optic transceiver modules, they meet your highest bandwidth demand.

Gigabit SFP Network Switch Selection Guide for 2025

Gigabit SFP switches are ideal for environments that require multiple connectivity options or future upgrades. Their SFP ports are designed to accept different types of transceivers, allowing

Fiber Optic Network Managed Switches: Key to Next

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A Complete Buying Guide to Fiber Optic Switches

A Guide to Buying Fiber Optic Switches A switch is an integral part of a network which establishes connectivity among various connected devices on the network such as computers, phones, cameras,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

