

OEM Fiber Optic Enterprise Router SFP



Summary of Content

OEM SFP modules are vendor-branded, hot-swappable optical transceivers that enable high-speed fiber connectivity in enterprise routers and switches.

Overview of SFP Modules

SFP (Small Form-Factor Pluggable) modules are compact, hot-swappable transceivers used in networking equipment to convert electrical signals into optical signals and vice versa, supporting fiber or copper connections at speeds ranging from 1G (SFP) to 10G (SFP+), 25G, and beyond . OEM SFP modules are manufactured by original optical component suppliers but branded and validated by major networking vendors like Cisco, Arista, or Juniper, ensuring full compatibility within their ecosystems . These modules often follow Multi-Source Agreement (MSA) standards, allowing interoperability while maintaining vendor-specific coding and testing .

Enterprise Router Integration

Enterprise routers with SFP ports, such as the Teltonika RUTXR1, support fiber connectivity for high-speed, reliable WAN links. These routers often include features like redundant power supplies, WAN failover, dual-SIM, USB, and console ports, making them suitable for mission-critical enterprise deployments . SFP modules can be inserted into these routers to provide flexible fiber optic connections, supporting various link spans depending on the module type:

- 1000BASE-SX: Multimode fiber up to 550 m
- 1000BASE-LX/LH: Single-mode fiber up to 10 km
- 1000BASE-EX: Single-mode fiber up to 40 km

Article Content

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This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

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