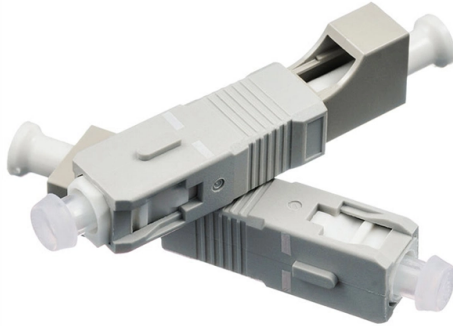


ODM Active Optical Devices 1G



Article Overview

An ODM 1G optical active device is a customizable 1 Gigabit SFP transceiver or active optical module designed for fiber optic networks, supporting various distances, connectors, and OEM compatibility.

Overview

A 1G optical active device typically refers to a 1 Gigabit SFP (Small Form-factor Pluggable) transceiver or active optical cable (AOC) used for high-speed data transmission over fiber optic networks. These devices are widely used in FTTH, FTTB, FTTX, data centers, and enterprise networks. They support both single-mode and multi-mode fiber, with transmission distances ranging from 100 meters to 160 kilometers, depending on the module type and wavelength.

Key Features

- Data Rate: 1 Gbps (Gigabit Ethernet)
- Form Factor: SFP (Mini-GBIC) or AOC
- Wavelength Options: 1310nm, 1550nm, or DWDM channels for dense wavelength division multiplexing
- Connector Types: LC, SC, FC, ST, APC/PC variants
- Distance Support: Short-range (10 km) to long-range (up to 160 km) depending on fiber type and module
- Temperature Range: Standard (0-70°C) or industrial (-40-85°C) for harsh environments
- Compliance: RoHS, IEEE standards, MSA-compliant for interoperability...

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People commonly use SFP transceivers to connect network devices and cables. With the increasing range of

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