

Madagascar Active Optical Module SFP



Overview

This transceiver module, compliant with MSA SFP+ specifications, uses a single-mode fiber (SMF) with a wavelength of 1550nm.

Key Takeaways

Madagascar SFP+ modules are high-performance, MSA-compliant optical transceivers designed for 10Gbps data transmission over single-mode fiber with distances up to 100 km.

Madagascar Active Optical Modules (SFP+) are hot-pluggable transceivers used to connect network devices such as switches, routers, and servers to fiber optic networks. They convert electrical signals into optical signals and vice versa, enabling high-speed data transmission over long distances. These modules are compliant with the SFP Multi-Source Agreement (MSA), ensuring compatibility with a wide range of networking equipment.

Key Specifications

- Data Rate: 10 Gbps (10GBASE-ZR standard)
- Fiber Type: Single-mode fiber (SMF)
- Wavelength: 1550 nm
- Transmission Distance: Options include 60 km (JS-SM5510-60C) and 100 km (LS-SM5510-A0C) depending on the model
- Connector Type: Duplex LC

- Operating Temperature: 0 to 70 °C
- Laser Type: Cooled EML laser transmitter with APD photodiode and TIA for signal reception

- Safety: Class I laser compliance

Features

- Digital Diagnostics Monitoring (DDM): Supports SFF-8472 standard for real-time monitoring of optical power, temperature, and voltage
- Compatibility: Works with major networking brands due to MSA compliance, allowing plug-and-play installation
- Applications: Ideal for long-distance backbone connections, data centers, cloud computing networks, and high-speed server interconnections

Advantages

- Long Reach: Supports up to 100 km, suitable for metropolitan and inter-city networks
 - High Reliability: Low bit error rate and stable performance under varying environmental conditions
 - Cost-Effective: Third-party modules like Madagascar provide a more affordable alternative to OEM transceivers without sacrificing compatibility or performance
- #### Summary

Madagascar Active Optical Module SFP+ transceivers are versatile, high-speed, and reliable solutions for 10G networks requiring long-distance single-mode fiber connections. They are suitable for enterprise LANs, data centers, and cloud infrastructure, offering both 60 km and 100 km reach options with full MSA compliance and digital diagnostics support .

Article Content

Madagascar distributor of active optical equipment SFP

SFP Active Optical Cables (AOC) - Incorporate real transceivers with fiber optics, providing longer-distance connectivity while

Madagascar FOB Active Optical Module SFP

An SFP module is a compact, hot-swappable optical transceiver designed to facilitate data transmission between network devices

madagascar Ciena 12434 10GBASE-ZR SFP+ 1550nm Optical

This transceiver module, compliant with MSA SFP+ specifications, uses a single-mode fiber (SMF) with a wavelength of 1550nm.

madagascar LP-RJ45TG-8YC 10GBASE-T SFP+ Copper RJ45 80m

Designed for low-power (1.5W) operation, high-density deployment, and stable 10G performance, the SFP+ optical transceiver

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200Gb/s QSFP+AOC (Active Optical Cables) is an active optical cable with QSFP 56 interface. The module is internally equipped

Datasheet Archive: MADAGASCAR SFP OPTICAL MODULE 1G

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HPC Optics is a leading supplier of fiber optic transceivers and active optical cables (AOC). Our transceivers are ideal for high

SFP Modules

SFP Module SM 155M, 20km 1550/1310nm, with LC Connector - FHM-S0305-L33-S20 22.34GEL Add Add to wish list Compare

Cisco Optics-to-Device Compatibility Matrix

Comprehensive compatibility information for Cisco optical transceivers and network devices Disclaimer: Cisco makes the data in this

Understanding Pluggable Optical Modules

An eSFP optical module is an SFP optical module that supports monitoring of voltage, temperature, bias current, transmit optical

SFP modules – transceivers for 1/2/4G fibre channel

SFP – small form factor – pluggable modules for various optical data communications such as Fast

SFP Optical Transceiver Products | Syrotech Networks

An SFP (Small Form-Factor Pluggable) is a compact, hot-pluggable transceiver used in telecommunications and data networks for

10G SFP+ Active Optical Cables | Optical Interconnect | Amphenol

Amphenol's 10G SFP+ optical modules include SFP+ AOC. They are compliant with SFP+ MSA, SFF-8431 and SFF

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SFP Modules: Types, Selection Guide & Applications

An SFP module is a compact, hot-swappable optical transceiver designed to facilitate data transmission between

SFP AOC Active Optical Cable Application Guide

AOC stands for Active Optical Cable. It integrates an optical cable of a specified length with

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