

S4 1 optical module operating distance



Summary of Content

The operating distance of an S4.1 optical module depends on fiber type and module specification, typically ranging from short-haul distances up to 15 km for single-mode fiber.

Overview

S4.1 optical modules are designed for STM-4 interfaces compliant with ITU-T G.957 standards, primarily supporting TDM traffic. They use LC connectors and can operate over both single-mode (SMF) and multi-mode fiber (MMF), with the effective distance determined by the fiber type, wavelength, and optical power budget .

Operating Distances

- Short-Haul (SH) S4.1 Modules: Typically designed for distances up to a few kilometers over single-mode fiber, suitable for intra-city or campus networks .
- Long-Haul (LH) S4.1 Modules: Can reach distances up to 15 km over single-mode fiber at 1310 nm wavelength, as indicated by standard SFP-OC12-SM13-15KM modules .
- Multi-Mode Fiber (MMF): Distances are shorter due to higher attenuation, generally limited to a few hundred meters to 2 km depending on fiber grade (OM1, OM2, OM3) and module power budget .

Key Factors Affecting Distance

- Fiber Type: Single-mode fibers allow longer distances than multi-mode fibers due to lower attenuation and dispersion.

Article Content

SFP, 622Mbps, OC12-IR1, SDH STM S4.1, SMF, 1310nm, 15KM

Every SFP-OC12-SM13-15KM module is environmentally tested in its specific port/platform, which includes compliance verification

SIMATIC NET PROFIBUS Optical Link Module OLM Operation Manual

If a module fails or a fiber-optic cable breaks or disturbances are detected on the optical transmission line, the fiber-optic link

Optical link module

Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the

Optical link module

These operating instructions support you when commissioning PROFIBUS OLM devices (Optical Link Modules). These Operating

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Chapter 10: Dual Optical S-4.1 Module, S4.1-2-LC

The module (see Figure 10-1) contains two optical STM-4 interfaces that meets the S-4.1 specification in ITU-T G.957. The physical

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Understanding SR/LR Optical Designations and Distances

The effective transmission distance of optical modules determines how far data can travel while maintaining signal integrity and

Description and Operating Instructions OLM/P11 SIMATIC NET

If a module with two optical ports is used at the beginning or end of a line, the optical port which is not assigned must be switched to

Optical Link Module

Die vorliegende Betriebsanleitung unterstützt Sie bei der Inbetriebnahme von PROFIBUS OLM Geräten (Optical Link Module). Diese

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