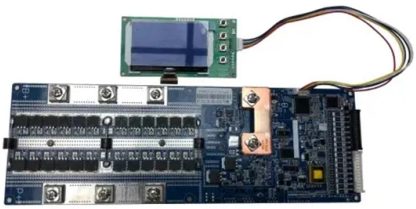
Parameters of the 10GSR Optical Module



Overview

The SFP+-10G modules are our latest generation of 10G transceiver modules solution based on a SFP+ form factor.

Key Takeaways

The 10GSR optical module is a 10 Gbps SFP+ short-reach transceiver operating at 850 nm, supporting multimode fiber links up to 300–400 meters with low power consumption and DOM capabilities.General Overview

The 10GSR module, also known as 10GBASE-SR SFP+, is designed for short-reach 10 Gigabit Ethernet (10GbE) over multimode fiber (MMF). It uses 850 nm VCSEL laser technology and a duplex LC connector interface, making it suitable for high-density data center and enterprise network deployments . It is compliant with IEEE 802.3ae 10GBASE-SR, SFP+ MSA (SFF-8431/SFF-8432), and supports hot-pluggable operation .

Optical Characteristics
• Wavelength: 850 nm

• Supported Fiber Types: OM3 and OM4 multimode fiber

• Maximum Link Distance:
• OM3: up to 300 meters

• OM4: up to 400 meters

• Transmitter Type: Uncooled VCSEL

• Receiver Type: High-sensitivity PIN photodiode

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• Optical Power Output: Typically optimized for MMF launch, ensuring BER < 10^-12 at 10.3125 Gbps
Electrical Characteristics
• Data Rate: 10.3125 Gbps nominal

• Power Consumption:

Article Content

FS SFP-10GSR-85 Datasheet: 10GBASE-SR 850nm 300m DOM Module

Designed for 10GBASE-SR/SW, OBSAI, and CPRI applications, it combines high-speed performance, low power consumption, and

Cisco 10GBASE SFP+ Modules Data Sheet

This feature gives the end user the ability to monitor real-time parameters of the SFP, such as

Cisco 10GBASE SFP+ Modules Data Sheet

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

10G SR SFP+ 850nm 300m Transceiver Datasheet | FS

1.10G SFP+ transceiver module is individually tested on corresponding equipment such as Cisco, Arista, Juniper, Dell, Brocade and

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The Intel E10GSFPSR is defined by a set of standardized 10Gbps optical parameters that ensure predictable performance in short

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Overview For customers looking for Ethernet connections over 15 meters, Intel® Ethernet SFP+ Optics can extend the reach to 300

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In the data center and enterprise networking realm, the Cisco SFP-10G-SR transceiver

10G SFP+ Cable and Transceiver Modules Data Sheet

The SFP+-10G modules are our latest generation of 10G transceiver modules solution based on a SFP+ form factor. (See Figure 1) •

How to Choose SFP-10G-SR Modules: A Comprehensive Guide

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In networking technology, selecting the appropriate SFP-10G-SR modules is paramount for ensuring optimal

10G SFP+ Optical Module Selection Guide: Demystifying LRM, SR,

Conclusion Selecting the optimal 10G SFP+ dual-fiber optical module requires a systematic approach. By

The Ultimate 10G Optical Module Guide: Compare LRM, SR, LR, ER,

Description: Confused by 10G SFP+ modules like SR, LR, ER, ZR? This definitive guide compares 10G dual fiber

Datasheet 10GBASE-SR SFP+ 850nm 300m DOM Transceiver

The transceiver is a “limiting module”, i.e., it employs a limiting receiver. Host board designers using an EDC PHY IC should follow

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SFP+ 10G Optical modules Features and benefit Industry''s smallest 10G form factor for greatest density per chassis Hot-swappable

10GBASE-SR SFP+ 850nm 300m Industrial Transceiver

When high, this output indicates the received optical power is below the worst-case receiver Sensitivity (as defined by the Standard

Cisco S-Class 10GBASE SFP+ Modules

Product Overview The Cisco® S-Class 10GBASE SFP+ modules (Figure 1) offer customers a variety of 10 Gigabit Ethernet

Intel E10GSFPSR Datasheet

E10GSFPSR For customers looking for Ethernet connections over 15 meters, Intel Ethernet SFP+ Optics can extend the reach to

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The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for

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4. Optical Spectrum Evaluation Evaluate various important parameters with the Optical Spectrum Analyzer to meet the industry

E10GSFPSR

These optical modules support both short range and long range distances with 10 Gigabit Intel Ethernet Network Adapters. The

10G Optical Module Selection Guide: LRM,SR,LR,ER,ZR

The 10G SFP+ dual-fiber optical module is a small pluggable optical transceiver that adopts a dual-fiber bidirectional

Microsoft Word

Absolute maximum rating These values represent the damage threshold of the module. Stress in excess of any of the individual

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XFP-10SR-85 Transceiver Datasheet

The 2-wire serial interface provides sequential or random access to the 8 bit parameters, addressed from 000h to the maximum

10GBASE-SR SFP+ 850nm 300m Industrial Transceiver

Each fiber optical transceiver has been fully tested in FS Assured Program equipped with world''s most advanced analytical

Cisco 10GBASE SFP Modules Data Sheet

The Cisco SFP-10G-SR-X is a multirate* 10GBASE-SR, 10GBASE-SW and OTU2/OTU2e module for extended operating

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