

50G Optical Module Ethernet





Overview

The SFP56 SR transceiver is a short range 50 Gbit/s pluggable optical module for data communications such as 50GBASE Ethernet. The module is fully compliant with all SFP56 related MSA standards and Digital Diagnostic functions are available through an I2C interface. The FS® 50GBASE Quad Small Form-Factor Pluggable (QSFP28/SFP56) portfolio offers customers a wide variety of high-density and low-power 50 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider. Optical transport networks have entered a phase of high-speed innovation, supporting growth from 10 Gbps up to 100 Gbps per interface — and paving the way for even higher rates. It is capable of providing a transmission rate of 50Gbps on a single wavelength and is widely used in network devices due to its compact size and high efficiency.



50G Optical Module Ethernet

50G SFP56 ER EML 1310nm 40km Optical Transceiver

GIGALIGHT 50G SFP56 ER optical transceiver module is used for 5G fronthaul, conforms to IEEE 802.3cn 50GBASE-ER Ethernet transmission protocol, and is compatible with 50G eCPRI

[Read More](#)

Cisco 50GBASE SFP56 Modules Data Sheet

The Cisco® 50GBASE SFP56 (Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 50G and

[Read More](#)



China Optical Transceiver Module & Mellanox Network

NVIDIA ConnectX-6 Lx 25/50G Ethernet SmartNIC MCX631102AN-ADAT OCP 3.0 with IPsec Get Best Price MSN2010-CB2F mellanox spectrum switches For

[Read More](#)

50G SFP56 LR EML 1310nm 10km Optical Transceiver Module

The GIGALIGHT 50G SFP56 LR optical transceiver module is used for long-distance interconnection of data centers or 5G fronthaul. It complies with IEEE 802.3cd 50GBASE-LR Ethernet transmission

[Read More](#)

Fiberworks Data Sheet

The SFP56 SR transceiver is a short range 50 Gbit/s pluggable optical module for data communications such as 50GBASE Ethernet. The module is fully compliant with all SFP56 related MSA standards

[Read More](#)



LightCounting :: Demand for optical connectivity continues to surprise

The Ethernet transceiver market was up 93% in 2024 and our latest estimates for 2025 suggest another 82% growth. We now forecast 65% growth for 2026, but maintain more conservative projections for

[Read More](#)

50G QSFP28/SFP56 Cable and Transceiver Modules Data Sheet

The SFP56-LR-50GM-I module is suitable for 50GBASE Ethernet, 5G Network Mid/Backhaul applications and can work in harsh industrial environments, such as

[Read More](#)



10G SFP+ Module, 10Gbase LR Optical Gigabit Ethernet Transceiver

Compatible for Juniper QFX-SFP-10GE-LR / EX-SFP-10GE-LR, and other Open Switch. Widely used in fiber switches, routers, NIC, server or other fiber optic equipments with 10Gb SFP+ ports. 10GBASE

[Read More](#)

Optical Transceivers , Fiber Optic Transceivers , Form

800G OSFP Optical Modules for High-Speed Ethernet Links Designed for 800Gb/s data rate links, these OSFP optical modules support 106.25Gb/s per

[Read More](#)

50G SFP56 BiDi EML 10km/30km Single-fiber Bidirectional

The GIGALIGHT 50G SFP56 BiDi single-fiber bidirectional optical transceiver module is used for 5G fronthaul, conforms to 50G Ethernet transmission protocol, and is also compatible with 50G eCPRI



The Key Role of 50G in Today's NG Networks

The product line encompasses a wide variety of high-density and low-power 50G Gigabit Ethernet connectivity options for data center, high-performance computing network, service provider access,

[Read More](#)

Cisco 50GBASE SFP56 Modules Data Sheet

Cisco SFP-50G-SL Short Link Modules are a replacement for traditional AOCs (Active Optical Cables). They are suitable for very short distances and offer a cost-effective way to connect within a rack and

[Read More](#)



Development trend of optical

Development trend of optical interconnect technology in intelligent computing centers
Summary 6 High rate :Intelligent computing centers are driving the acceleration and innovation of optical module chips

[Read More](#)

/ 50G Optical Transceivers

Our product range includes SFP56 modules, covering LR, CWDM, and DWDM solutions that support data rates of up to 50 Gb/s, delivering reliable and high-performance connections across various

[Read More](#)

The Ultimate Guide to SFP Modules (2026): Types,

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right

[Read More](#)



10G, 25G, 50G and 100G Optical Transceivers and Ethernet Standards

A practical guide to modern optical transmission standards from 10G to 100G Ethernet. Learn the differences between SFP, QSFP, and CFP transceivers, NRZ vs PAM4 modulation, lane

[Read More](#)

ETHERNET OPTICS: CLOUD, ENTERPRISE AND TELECOM

Abstract This report analyzes the impact of growing data traffic and the changing architecture of data centers on the market forecast for Ethernet optical transceivers with a focus on the high-speed

[Read More](#)



400G vs 800G Ethernet: The Future of Data Center Networks

A technical deep-dive into 400G vs 800G Ethernet -- architecture, optics, power consumption, cost and real-world deployment guidance for AI data center networks in 2025-2026.

[Read More](#)

Explore the Features and Applications of FS 50G SFP56 Module

The 50G SFP56 is an optical module used in fiber optic communication. It is capable of providing a transmission rate of 50Gbps on a single wavelength and is widely used in network

[Read More](#)

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

[Read More](#)



SFP Optical Transceiver , SFP Optical Module , Perle

Perle SFP Optical Transceivers are designed for use with Perle SFP Media Converters, Industrial Ethernet Switches, IOLAN SCG Console Servers and third

[Read More](#)

SFP+ Optical Transceiver Modules (10G-SR/LR)

Code: SF-10GSFPPLCL-000 Genuine Amphenol 10GBASE-SR SFP+ Optical Transceiver Modules provide a high-density, high-performance interface for 10

[Read More](#)

Explore the Features and Applications of FS 50G SFP56 Module



The FS 50G SFP56 optical module is a high-performance fiber-optic transmission solution designed for high-speed network applications, particularly suited for 50G short-range Ethernet

[Read More](#)

Contact Us

For datasheets, pricing, or custom data center infrastructure solutions, please visit:
<https://www.zeldaterblanchephotography.co.za>