

Broadcast Transmission SFP Optical Module EML



Overview

This product is 10Gbps compact optical transmitter module with Electro-absorption Modulator integrated Laser (EML). This module is compliant with MSA standard. This EML-TOSA exhibits high dispersion tolerance and long distance transmission performance up to SMF 80km. EML modules are equipped with a TEC (Thermoelectric Cooler) for precise laser temperature control and adopt external modulators. This single-channel transmission solution leverages PAM4 modulation technology, converting one electrical signal into one. The CC-PII448L-xD 10Gb/s SFP+ optical transceiver module is engineered for high-performance, long-distance optical communication, combining cutting-edge 1550nm cooled EML transmitter technology with an APD receiver for superior signal integrity. It integrates advanced EML transmitter and APD receiver technologies, offering low power consumption, high reliability, and compliance with industry standards.



Article Content

FIBERTOP 10G SFP+ SMF 1550nm 100km LC DOM

All modules satisfy class I laser safety requirements. The transceivers are compatible with SFP Multi-Source Agreement and SFF-8472 digital diagnostics functions.

Introduction To DML And EML Modulation Methods For

The optical signal transmitted through optical fibers is not constant; instead, it is a modulated signal with varying intensity. The characteristics and application

100G SFP112 Optical Module: High-Speed, Energy

Discover the 100G SFP112 optical module, leveraging advanced PAM4 modulation for 112 Gbps single-channel transmission. Ideal for data centers, telecom

Softel Optical SFP Module

With a transmission range of up to 80 kilometres, the module is ideal for long-distance connectivity, ensuring fast and efficient performance. The transceiver features the latest technology, including a

What Is an SFP Module? Complete Guide

SFP modules, or Small Form-factor Pluggable modules, are essentially the workhorses of modern networking. They facilitate data

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

What is an SFP? SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect network devices (switches, routers,

SFP Optical Transceivers: Types, Principles, Selection,

SFP modules enable long-distance, high-speed data transmission through optical fibers, making them essential components in data centers,

SFP+ 40km (10GBASE-ER): Extended-Reach Optical Module Guide

Understand SFP+ 40km (10GBASE-ER) modules, including specs, SMF compatibility, and how to choose the right extended-reach optical transceiver for your network.

What is FEC in a 100G Optical Module?

What is FEC in 100G Optical Modules? FEC adds redundant error-correcting codes to detect and fix transmission errors without retransmissions, critical for 100G QSFP28 transceivers.

10G SFP+ BIDI 80km Optical Transceiver, EML APD,

The module utilizes Electro-absorption Modulated Laser (EML) and Avalanche Photodiode (APD) technologies, ensuring high sensitivity and long-range

Applications Of 10G EML SFP+ Products

This design enables 10G EML modules to achieve a maximum transmission distance of 80 km. Below is a brief introduction to three applications of EML products and Moduletek's 10G EML

Broadcast CWDM HD-SDI SFP Optical Transceiver

All modules satisfy class I laser safety requirements. It is also widely used in CWDM and CWDM MUX/DEMUX SDI EO/OE transmission network system. The SDI

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

Role of SFP Optical Transceivers (SFP Module) in High

Explore how SFP optical transceivers (SFP modules) enhance high-speed internet connections by improving network performance, reliability, and

Enabling Long-Reach 10G Connectivity: The 80km

In today's data-driven world, the demand for high-speed, reliable, and long-distance optical connectivity continues to grow. The CC-PII448L-xD 10Gb/s

10Gbps EML-TOSA | Products / Tech Info (Photonics)

This product is 10Gbps compact optical transmitter module with Electro-absorption Modulator integrated Laser (EML). This module is compliant with MSA standard. This EML-TOSA exhibits high dispersion

SDI Video SFP Module Solution for Broadcast Video

Optcore's SDI video SFP module solution has helped a lot of broadcast customers across the world to transport their video signals over optic fiber.

Optical Transceiver Module

Fiber optic module manufacturer, ETU-Link supply full model optical transceivers, including standard 8g/10g/25g/40g/100g sfp+ optical modules and

10G DWDM SFP+ Transceivers 40KM 16dB EML C-Band 50GHz

Product Description 10G DWDM SFP+ 40KM 16dB EML C-Band 50GHz 100GHz 200GHz ITU grid Description Gezhi Photonics SFP+ER DWDM Transceiver is designed for 10GBASE-ER/EW, and

10G SFP+ Optical Transceiver

The transceiver consists of three sections: a Cooled EML laser transmitter, a PIN photodiode integrated with a trans-impedance preamplifier (TIA), and an MCU

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

Silicon Photonics vs. EML Technology: Optimizing 1.6T

Compare Silicon Photonics and EML technologies in optical transceivers. Explore the unique advantages of SiPh and EML chip solutions in

A Clear Comparison of Laser Diodes in Optical

Optical transceivers rely on integrated lasers to deliver precise, reliable, and high-bandwidth signal transmission. This article compares the four

What Is a 1550nm Optical Transceiver and How Does It

1. What Is a 1550nm Optical Transceiver? A 1550nm optical module is a compact module—often in SFP or SFP+ form—that bridges network electronics

Application Scenarios of the 10Gb/s 80km SFP+ Optical

The CC-PII448L-xD 10Gb/s SFP+ optical transceiver module is engineered for high-performance, long-distance optical communication,

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

Understanding EML Chips: Key Components for High

Introduction Electro-Absorption Modulated Laser (EML) chips are critical components in modern optical communication systems, enabling high

10G SFP+ Optical Transceiver

T1-SFP-10G-DWDM40-Cxx is a high-performance, cost-effective module that supports a data rate of 10Gbps and 40km transmission distance with SMF. The

Broadcast DWDM 3G-SDI SFP Optical Module

3Gb BIDI DWDM SFP Optical Transceiver Module for SD/HD/3G-SDI is designed to transmit data rates from 5Mbps to 2.97Gbps with optional CWDM or DWDM

Contact Us

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