

12-channel optical module



Overview

Consisting of 12 independent optical channels, each capable of transmitting 3.5 Gbps up to 300m on 50 micron multimode optical fiber, these modules have an aggregate link bandwidth in excess of 40 Gbps and operate at a wavelength of 850nm. These modules are well suited for high-bandwidth commercial aerospace systems with the added benefit of reducing aircraft wiring and system. SNAP12 is a 12-channel pluggable parallel optical module with an MPO connector for high-speed data transmission. The earliest SNAP12 dates back to around 2002, when the SNAP12. The LEAP® OBT (On-Board Transceiver) is a rugged 12-channel full-duplex optical transceiver capable of achieving data rates of up to 28.05Gbps per channel, or 300Gbps in total when considering all channels. This high-speed fiber optic transceiver is optimized for multi-mode fiber at 850nm and. RUGGED & HOT PLUGGABLE, the Quad Embedded Pluggable Transceiver (QEPT) aggregates 100Gbps over 4 channels on an efficient footprint, designed for highly challenging applications where both reliability and performance are critical. The LEAP® On-Board Transceiver is a commercial 12-channel duplex. Designed to operate on multimode fiber systems at a nominal wavelength of 850 nm, the Parallel Fiber-Optic Modules feature high-performance, highly reliable, short wavelength optical devices, coupled with proven circuit technology to provide long life and consistent service.



Article Content

12G-SDI video SFP+ Optical Transceiver

The SFP-12G-OPT-TR module is a high performance 12G/6G/3G/HD/SD-SDI video SFP+ optical transceiver, compatible with LivePremier™ SFP+ input or output

8 Channel Optocoupler Signal Converter Module 20kHz Frequency 12V

Optical Isolation Module Limit Switching Frequency 20KHZ 12V to 3.3V 8 Channel Optocoupler PLC Signal Converter Board Item Type: Optical Isolation...

POB Optical Transmitter,10G,12Tx - F-tone Networks

F-tone Networks is now a world leader in development of optical transceivers and provide a wide range of high-speed optical solutions for optical communication networking, especially for AI, Data Center,

SNAP12 Series Parallel Optical Transceiver Module

The SNAP12 series parallel optical transceiver module is designed for short-distance high-speed data communication and parallel optical interconnects, such as optical backplanes, server-to-storage

12-Channel Dual Fiber CCWDM Mux/Demux LGX

Our 12-Channel Dual Fiber CCWDM Mux/Demux delivers efficient wavelength management for 5G fronthaul networks. Supporting 25G-ready operation across

Arista Announces XPO High Density Liquid Cooled

SANTA CLARA, Calif., March 12, 2026--Arista Networks (NYSE: ANET) today announced the formation of a multi-source agreement (MSA) for XPO, a

Understanding SNAP12: What You Need to Know

What is a SNAP12? SNAP12 is a 12-channel pluggable parallel optical module with an MPO connector for high-speed data transmission. Unlike

GlobalFoundries" Unveils Optical Module Solution Targeting CPO

MALTA, N.Y., May 5, 2026 — GlobalFoundries (GF) has introduced an optical module solution for co-packaged optics (CPO). According to the company, the Silicon photonics Co-packaged Advanced

12G-SDI Video SFP 1310nm 10km Transceiver for

12G-SDI UHD Video SFP Fiber Optical Transceiver Module for 12G/6G/3G/HD/SD-SDI (SMF, 1310nm, 10km, LC, DOM, MSA) Optcore"s OHP12G-3110DCR is a

High-speed transceiver

Features & Benefits SNAP12 is a 12-channel pluggable parallel optical transmitter or receiver module with a standard chassis mountable MPO interface. It is a self

\$SIVEF — Siverts Semiconductors: The Swedish InP Laser Company

Simultaneously, Siverts partnered with O-Net Technologies and Enablence to develop an 8-channel external light source module specifically for AI datacenter and HPC Co-Packaged Optics

InterBOARDTM 40 Gbps SNAP 12 Parallel Fiber Optic Transmitter

Reflex Photonics transmitter and receiver modules offer twelve asynchronous channels operating at up to 3.5-Gbps per channel. These modules are designed for very short reach application (1m to 300m)

Parallel Optic Modules

Designed to operate on multimode fiber systems at a nominal wavelength of 850 nm, the Parallel Fiber-Optic Modules feature high-performance, highly reliable, short wavelength optical devices, coupled

FieldCast 12G SFP Optical Transceiver Module

12G SFP Optical Transceiver Bidirectional 1310nm 12G video SFP Supports NTSC/PAL, 720p, 1080p/i, and 4K at up to 60fps Allows 4K 60p video to be sent

Agilent SFBR-7551-REPZ Pluggable Parallel

SNAP12 is a 12-channel pluggable parallel optical transmitter or receiver module with an MPO interface. It is an electrical to optical converter, which requires no

1 Channel 5 12V Relay Module With Optical Coupler Isolation Relay ...

Attributes 1 channel 5 12V relay module With optical couplerModel Number Guangdong, ChinaPlace of Origin shengdingtongBrand Name /Mounting Type Relay ModuleDescription Relay

Optical Transceivers | Amphenol Active Optics Products

The LEAP® On-Board Transceiver is a rugged 12-channel duplex optical transceiver capable of running data-rates of up to 16Gbps per channel (192Gbps cumulative)

LEAP | Amphenol Aerospace

The LEAP® OBT (On-Board Transceiver) is a rugged 12-channel full-duplex optical transceiver capable of achieving data rates of up to 28.05Gbps per channel, or

12G-SDI SFP+

The GIGALIGHT 12G-SDI SFP+ video optical modules are designed for high-definition video signal optical transmission applications, supporting SD-SDI, HD

12G-SDI SFP+ BiDi Optical Modules

FIBERSTAMP 12G-SDI BiDi SFP+ is a series of single-fiber bidirectional transceiver integrated optical modules designed for high-definition video signal optical

12G-SDI SFP+ 1310nm 20km Optical Transceiver

GIGALIGHT 12G-SDI SFP+ is a series of dual-fiber bidirectional transceiver integrated optical modules designed for high-definition video signal optical

SNAP12 Brochure (A4)

SNAP12 is a 12-channel pluggable parallel optical transmitter or receiver module with an MSA standard chassis mountable MPO interface. It is a self-contained, electrical to optical converter, which requires

Corona Optical Systems intros pluggable 12-channel optical modules

Each module features 12 optical channels operating at speeds up to 3.35 Gbits/sec per channel, resulting in an aggregate throughput of over 40 Gbits/sec.

Understanding SNAP12: What You Need to Know

Learn about SNAP12, a unique 12-channel pluggable parallel optical module for high-speed data transmission. Understand its features & application.

Behringer P16-I Input Module, 16-Channel Rackmount Input Module

Part of the P16 Personal Monitoring System, the P16-I input module can be used with any analog source, and convert up to 16 analog inputs into 24-bit digital audio to send to your P16-M Personal

Design Issues for Optical Channel Monitoring Inside Pluggable Optical ...

Design Issues for Optical Channel Monitoring Inside Pluggable Optical Modules

Summary Integrated Optical Channel Monitoring inside QSFP, OSFP, XPO, and next-generation pluggable modules

Contact Us

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