

Miniature Multi-Channel Parallel Optical Module Specifications



Overview

● Miniature swappable POB package, high density, small form factor ● Conform to GJB8120 General Specification for Semiconductor Optoelectronic Modules ● 10. 3125Gbps typical transfer rate ● Multi-channel optical signal integration ● Very short distance high speed data communication

2022-11-28 Assigned to CIT NORTHBRIDGE CREDIT LLC
reassignment CIT NORTHBRIDGE CREDIT LLC
PATENT SECURITY AGREEMENT
Assignors: APPLIED OPTOELECTRONICS, INC. A multi-channel parallel optical communication module includes a casing having an airtight cavity, an optical communication assembly accommodated. A multi-channel parallel optical communication module includes a casing having an airtight cavity, an optical communication assembly accommodated in the airtight cavity, and a temperature controller in thermal contact with the optical communication assembly. The module adopts a hermetically sealed micro-socket package structure, featuring a. The SNAP12 family of optical embedded transceivers are affordable, reliable, high-performance embedded optical transceivers with bandwidth up to 120 Gbps. These modules are well suited for high-bandwidth commercial aerospace systems with the added benefit of reducing aircraft wiring and system. One of Avago Technologies is a compact, low-cost, high-bandwidth parallel optical solution for short-distance data interconnection and communication applications.



Article Content

POB24 Series Parallel Optical Transceiver Module

The POB24 series parallel optical transceiver module is designed for defense communication command systems and subsystems, enabling bidirectional conversion between multi-channel electrical and

Miniature embedded optical modules in parallel: up to 150 Gbps

Measuring just 7.8 mm x 8.2 mm x 3.9 mm, these modules incorporate Avago's VCSEL and PIN configuration technologies, as well as its IC technologies, to optimize the modules and achieve

Parallel Optics

Figure 1 illustrates the channel configurations for 4X, 10X and 12X protocols. The IEEE 802.3 Task Force is currently developing a standard to cover both 200 and 400GbE transmission. This standard

POB Series of Optical Modules

Miniature swappable POB package, high density, small form factor. Conform to GJB8120 General Specification for Semiconductor Optoelectronic Modules. 10.3125Gbps typical transfer rate. Multi

A Microlens Array Grating for Miniature Multi-Channel

Most existing multi-channel spectrometers are constructed by physically stacking single-channel spectrometers, resulting in their large size,

Microsoft Word

Abstract A new generation of miniature optical engines is enabling novel on-board optical interconnect solutions. In this paper, we review the technology and capabilities of these new optical devices. We

FireFly™ Mid-Board Optical Transceivers

Samtec's 14 Gbps FireFly™ FMC™ Module provides up to 140 Gbps full-duplex bandwidth over 10 channels from an FPGA to an industry-standard multi-mode

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Tbps wide-field parallel optical wireless communications based on a ...

In this work, the authors present a metasurface-based wide-angle beam splitter designed for future applications in optical wireless communication. By leveraging the metasurface polarization ...

POB Series Single-Mode 4-Channel Parallel Optical

The POB series single-mode parallel optical transceiver module is designed for long-distance high-speed data communication and parallel optical interconnects

Parallel Optic Modules

As the leading worldwide supplier of parallel optic products, Avago Technologies' pluggable Parallel Fiber-Optic Modules allow for easy assembly and system field upgrades to add band-width. These

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

Miniature embedded optical modules in parallel: up to 150 Gbps

One of Avago Technologies is a compact, low-cost, high-bandwidth parallel optical solution for short-distance data interconnection and communication applications. The miniature MicroPOD™ parallel

Miniature detachable photonic turn connector for optical module ...

Miniature embedded parallel optic modules are newly available and currently being designed into system equipment solutions to address the expanding requirement for very dense I/O

1060-nm VCSEL-based parallel-optical modules for optical

We introduce solder-reflow-capable parallel-optical modules employing 1060-nm InGaAs/GaAs VCSEL which leads to the advantages of realizing wider modulation bandwidth, longer

US20230007886A1

A multi-channel parallel optical communication module includes a casing having an airtight cavity, an optical communication assembly accommodated in the airtight cavity, and a temperature...

Multi-channel parallel optical transceiver module

The present disclosure provides a multi-channel parallel optical transceiver module. The disclosed optical transceiver module/device may include a shell body and a circuit board located in the shell

Multi-channel parallel optical communication module and optical ...

A multi-channel parallel optical communication module includes a casing having an airtight cavity, an optical communication assembly accommodated in the airtight cavity, and a temperature...

Multi-channel optical module based on PLCC packaging

This paper studies the multi-channel digital Optical module based on PLCC packaging, and designs and manufactures a small 4-channel parallel receiving and emitting module. The problem of 10Gbps rate

MiniPOD™ AFBR-811Vx3Z, AFBR-821Vx3Z 10 Gbps/Channel, 300 m

Description The AFBR-811Vx3Z Twelve Channel, Pluggable, Parallel Fiber Optics Transmitter and AFBR-821Vx3Z Twelve Channel, Pluggable, Parallel Fiber Optics Receiver are high

160-Gb/s Bidirectional Parallel Optical Transceiver Module for Board ...

We report here on the design, fabrication and high-speed performance of a novel parallel optical module with sixteen 10-Gb/s transmitter and receiver channels for a 160-Gb/s bidirectional

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

A Microlens Array Grating for Miniature Multi-Channel Spectrometers

The performance of the miniature multi-channel spectrometer with the fabricated microlens array grating was verified by some experiments. Furthermore, the application of this multi-channel spectrometer

Integrated multi-port multi-wavelength coherent optical source for ...

The authors showcase a compact, energy-efficient multi-wavelength light source for scalable multi-Tb/s optical links. The system integrates a Kerr microcomb with a CMOS-compatible

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