

Price range of miniature multi-channel parallel optical modules

Article Overview

Current prices for miniature multi-channel parallel optical modules vary widely depending on type, channel count, and vendor, typically ranging from several hundred to several thousand USD per module.

Module Types and Specifications

1. Samtec FireFly™ Micro Flyover System

- Supports 14–28 Gbps per lane, with potential for 112 Gbps PAM4 via optical cable .
 - Miniature footprint allows high-density board integration and chip-to-chip, board-to-board, or system-to-system connectivity.
 - Interchangeable copper and optical systems using the same connector set.
 - Designed for high-performance, short-reach applications; pricing depends on configuration and volume.
- #### 2. POB Series Parallel Optical Modules (China Nationally-Made)

- POB48: 48-core MT/MPO interface, single-channel rates 1.25–10.3125 Gbps, operating temperature -40°C to +85°C .
 - POB24: 24-core MT/MPO interface, similar speed and temperature range.
 - Hermetically sealed micro-socket package with spring-loaded electrical connectors.
 - Used in defense communication, radar processing, and server-to-storage interconnects.
 - Pricing is customizable based on channel count, transmission distance, and order volume.
- #### 3. QSFP28 SR4 Optical Transceivers...

Article Content

Apr 09, 2026

POB Series Single-Mode 4-Channel Parallel Optical Transceiver Module

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

Jan 19, 2026

Optical Components and Modules

A wide selection of WDM components ranging from thin-film DWDM and CWDM filters with different channel spacings, customized

Aug 22, 2025

POB Series of Optical Modules

[Optical fiber classification] Optical module pigtails with 12 or less channels are divided into flat fiber and round fiber. The flat fiber

Jan 13, 2026

Parallel Optic Modules

Designed to operate on multimode fiber systems at a nominal wavelength of 850 nm, the Parallel Fiber-Optic Modules feature high

Jul 11, 2026

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

Jul 25, 2025

High-Density Parallel Optical Transceiver

Avago Technologies announced the availability of production volumes of 120 Gbps multichannel optical transmitter

Oct 25, 2025

Parallel wavelength-division-multiplexed signal transmission and ...

To evaluate the performance of our proposed system, we conducted experiments demonstrating parallel signal

Jan 06, 2026

Ruggedized Parallel Optical Transceivers, DWDM Transceivers, and

Glenair, Inc: Space and Military-Grade Board-Mount Optical Transceiver Technologies
— Including Four to Twelve Channel Parallel

Sep 10, 2025

Avago Technologies Eclipses Speed, Bandwidth Barriers with Miniature ...

Avago's miniature 12-channel embedded MicroPOD parallel optics transmitter and receiver modules support lane

Feb 03, 2026

12-Channel Parallel Optics Transmitter Module

These high-speed, high-density optical modules are designed to operate over multimode fiber systems using a

May 18, 2026

VCSEL-based parallel-optical modules for optical interconnects

Several different kinds of VCSEL-based parallel-optical modules have been developed in Furukawa Electric for optical interconnects.

Apr 19, 2026

POB Series of Optical Modules

POB Series of Optical Modules Product introduction Miniature swappable POB package, high density, small form factor Conform to

Apr 08, 2026

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

Dec 21, 2025

Sn-Ag-Cu Solder Reflow-Capable 28-Gb/s × 4-Channel High-Density ...

This paper describes a unique solution to the next-generation high bit-rate and high channel-density parallel-optical

Mar 25, 2026

Multi-channel parallel optical receiving device

The optical signals are divided into multi-channel optical signals in parallel. The top surface of an output end of the arrayed

Nov 10, 2025

DataStar™ MIL-AERO Embedded Quad Parallel Fiber Optic Modules

Glenair DataStar™ MIL-AERO Quad PCB-mounted modules are low-profile, ruggedized, optoelectronic engines with high-datarate

Aug 05, 2025

Miniature integrated spectrometers towards high-performance and

The conjugated mode of bound states in a continuum is integrated as a narrowband wavelength extraction unit. A low

Dec 28, 2025

Fiber Optic Transceiver Modules | Optoelectronics

Shop DigiKey's large in-stock selection of Fiber Optic Transceiver Modules. View inventory, pricing and

Jun 13, 2026

POB24 Series Parallel Optical Transceiver Module

The POB24 series parallel optical transceiver module is designed for defense communication command systems and subsystems,

Jun 20, 2026

FireFly™ Mid-Board Optical Transceivers

Samtec's 25/28 Gbps FireFly™ FMC+™ Module provides up to 400/448 Gbps full-duplex bandwidth over up to 16 channels from an

Oct 19, 2025

Parallel Optical Transceivers & AOC - CablesTEC

CablesTEC's parallel high-speed optical modules use mature optical components and manufacturing processes, and have great low

Sep 18, 2025

Optical Transceiver Modules Prices & Specifications

Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot

Jun 12, 2026

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

Abstract A multi-channel parallel optical communication module includes a casing having an airtight cavity, an optical communication

Nov 09, 2025

LCC Series Parallel Optical Transceiver Module

The LCC series parallel optical transceiver module is designed for short-distance high-speed data communication and parallel optical

Mar 05, 2026

Compact multi-channel LED/PD array modules using new assembly ...

Compact 12-channel LED/PD (light emitting diode/photodiode) array modules using novel assembly techniques have been

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

