

Optical Module zblock



Overview

Future Optics' z-block is a passive optical subassembly (POSA) based on our free-space-optics wavelength division multiplexing (WDM) platform to deliver optical mux / demux functionality directly inside standard or customized small-form-factor transceivers. Speed up the assembly of mux/demux components for high-speed optical transceivers with these monolithic Z-blocks that enable a more rapid alignment process. Structurally, it is typically composed of several integrated optical elements, including collimating lenses, rhomboid prisms, and specially designed optical mirrors. It can be CWDM or LAN-WDM, and the switch only needs to replace the Z-BLOCK component based on TFF. If you need more information on PRICE, TECHNICAL DETAILS or TAILOR SOLUTIONS, please contact us via sales@optowide. Optowide: Create Value for Customers with Advanced Optics Technologies.



Article Content

Apr 21, 2026

Technical note / Optics modules

1. Overview The optics module is comprised of Si photodiodes, optical components, and current-to-voltage conversion circuit. Our lineup includes filter type spectroscopic modules (C13398 series)

May 03, 2026

OEM and ODM Z-Block For Telecommunications

Hitronics is a professional Z-Block For Telecommunications Transceiver manufacturer and supplier in China,ODM custom Z-Block Transceiver at global

Nov 01, 2025

Optical module design resources | TI

Design requirements Modern optical module designs often require: Reduced power consumption to control and limit module temperature rise. Dynamic and precise control of laser diodes to regulate

Sep 19, 2025

How a Tiny, Low-Power MCU Meets the Needs of an

Abstract The advent of 5G heralds the era of the technology Internet of Things. Although the end user is connected to the network wirelessly, the

Apr 12, 2026

Introduction to 800G Optical Module

In an AI era marked by remarkable technological advancements, a groundbreaking innovation has emerged: 800G optical transceivers. This high-end equipment is set to revolutionize

Feb 26, 2026

OFC 2023 Preview: Integrated Z-block Subassemblies for 400G

This Z-block subassembly integrates all optical components at the RX end of the high-speed transceivers, including receptacle, collimator, Z-block, lens array, and prism.

Sep 07, 2025

400G RX Integrated Optical Assemblies Z-Block

We're one of leading 400g rx integrated optical assemblies z-block manufacturers and suppliers in China. Source here the best customized 400g rx integrated

Nov 10, 2025

CWDM Z-Block specification|FutureOptics

Future Optics' CWDM Z-BLOCK mux/ demux is a highly integrated optical sub-assembly device based on thin film filter technology and optical path Zig-Zag design, acting as an optical engine to combine

Dec 22, 2025

400G RX Integrated Optical Subassembly, Z-Block

400G RX integrated optical subassembly integrates all optical components at the RX end of the high-speed optical transceiver module, including Receptacle,

Oct 02, 2025

Optics SWDM, CWDM, LWDM Z-BLOCK

Optical Filter Subassemblies for Datacom Transceivers The Coherent Z-block subassemblies achieve very low insertion loss, enabling efficient wavelength multiplexing and demultiplexing in high-speed

Jan 15, 2026

Inside the Optics: Understanding Z-Block and TFF Prism

The Z-Block is a core optical component used in wavelength division multiplexing/demultiplexing (WDM) systems. Structurally, it is typically composed of several

Nov 05, 2025

TI DLP® System Design: Optical Module Specifications

ABSTRACT The objective of this application note is to help product developers better understand optical module specifications and related system design considerations. This information helps expedite

May 27, 2026

Next-Generation Networking: Launch of the 800G OSFP VR8 MPO Optical ...

Discover the details of Next-Generation Networking: Launch of the 800G OSFP VR8 MPO Optical Transceiver for AI Data Centers at LonRise Equipment Co. Ltd., a leading supplier in

Jul 27, 2026

Samsung Foundry Reportedly Wins Optical Module Order,

Samsung Foundry is reportedly stepping up its silicon photonics efforts. According to ZDNet, the company said in its 1Q26 earnings release that its foundry has secured orders from a

Apr 08, 2026

Block Diagram: Optical Module

Block Diagram: Optical Module The Kyocera electronic components used in an optical module are shown in the block diagram.

Jan 15, 2026

Z-BLOCK CWDM

Optiworks" Z-block CWDM is based on free space TFF technology design with low insertion loss. It has extraordinary optical performance and high reliability.

Apr 27, 2026

OFC 2026 Heralds Optical Shift for AI Factories

Marvell and Lumentum. The two companies have jointly developed a rack-level system that integrates Marvell's optical digital signal processors (DSPs) and datacenter interconnect module

Dec 23, 2025

CWDM4 Z-BLOCK mux demux sub-assembly with low

Future Optics" z-block is a passive optical subassembly (POSA) based on our free-space-optics wavelength division multiplexing (WDM) platform to deliver optical

May 08, 2026

HYC integrated Z-block subassemblies for 400G transceivers

This Z-block subassembly integrates all optical components at the RX end of the high-speed transceivers, including receptacle, collimator, Z-block, lens array, and prism.

Jun 08, 2026

Optical Modules

Optical modules are optical transceivers used for high-speed data transmission, and are used anywhere larger amounts of data needs to be sent and received.

Nov 30, 2025

SWDM, CWDM, LWDM Z-BLOCKS | Coherent

Speed up the assembly of mux/demux components for high-speed optical transceivers with these monolithic Z-blocks that enable a more rapid alignment

Contact Us

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