

Optical Module OAK



Overview

OAK-13 is a rugged, reliable access distribution device, supporting variety of optical fiber cables like MMF (2 Km) and SMF to support distance range up to 100 Km. The redundant and hot-swappable power supplies ensures higher availability to meet stringent SLA requirements. Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on the side that connects to the outside. OAK-13 is a compact 3U high, 19" rack mountable device offering high port density. The high density rack chassis supports up to 13 line modules providing up to 26 independent unmanaged Fast & Gigabit Ethernet media converter circuits. Hot-swappable line modules & redundant power supplies. Integrated circuits and reference designs help you create a smaller and faster optical module design used in high-bandwidth data communication applications. Whether you are creating a 100-Gbps or 400-Gbps, small form-factor pluggable (SFP) module, SFP+ transceiver, XFP module, CFP, X2/XENPAK module. OmniVision's OV9282 is a 1MP (1280×800) global shutter grayscale image sensor. Arducam OV9282 camera module can be used in almost all OAK products (OAK-D, OAK-D S2 OAK-D Pro, OAK-D-PoE, OAK-D S2 PoE, etc. OAK FFC baseboards are OAK devices that.

Article Content

Feb 14, 2026

MC-OAK-13

Hot-swappable line modules & redundant power supplies supplements high availability and ease of serviceability. OAK-13 is a rugged, reliable access

Jun 17, 2026

The Evolution of Optical Modules: Powering the Future

Enter optical modules, which leverage the power of light to transmit data efficiently over long distances, driving the next generation of technological

May 11, 2026

OV9282 Monochrome Global Shutter Camera Module for DepthAI

OmniVision's OV9282 is a 1MP (1280×800) global shutter grayscale image sensor. Arducam OV9282 camera module can be used in almost all OAK products (OAK-D, OAK-D S2 OAK-D Pro, OAK-D

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Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your network.

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Wholesale Optical Transceivers Module | 100G

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical

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Optical module - A comprehensive exploration

The optical module is one of the core devices of the optical communication system, and its development has a vital impact on its related

Jun 06, 2026

Optical module design resources | TI

View the TI Optical module block diagram, product recommendations, reference designs and start designing.

Nov 28, 2025

Getting started with FFC

Here's the list of already built OAK FFC camera modules, which you can easily connect to any OAK FFC baseboard with a flat flexible cable. We are working

Dec 13, 2025

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

Apr 30, 2026

OAK Modules - Luxonis

Optical module

OverviewOptical module focused trade showsElectrical Interface TypesOptical modulation and multiplexing typesIn-module componentsElectrical cable equivalentFront panel optical module MSAsOn-Board Optical module MSAs

The main trade show for the large optical module industry is the Optical Fiber Conference (OFC), that is held annually in southern California. Other prominent shows for the industry include ECOC in Europe and FOE in Japan.

Sep 18, 2025

Understanding Optical Modules: Types and

Optical modules come in various types, and their external structures are not exactly the same. However, their basic compositional structure includes the following

Sep 25, 2025

Characteristics and Applications of Optical Module PCB

With the rapid advancement of information technology, optical module PCB technology has emerged as one of the core technologies in modern

Jan 25, 2026

OAK-D-Pro-W Luxonis | Mouser

OAK-D-Pro-W Luxonis Cameras & Camera Modules OAK-D Pro W Series 2 datasheet, inventory, & pricing.

Dec 02, 2025

MC-OAK-13

OAK-13 is a rugged, reliable access distribution device, supporting variety of optical fiber cables like MMF (2 Km) and SMF to support distance range up to 100 Km.

Aug 14, 2025

Fundamentals of an Optical Module

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and vice versa. An

Mar 18, 2026

Optical Module PCB: The Ultimate Guide to Design, Fabrication, and ...

This guide serves as an in-depth resource for engineers, designers, and project managers involved in the development of optical module PCBs. It will explore the complete product lifecycle, from design

May 24, 2026

Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules convert electrical signals into optical

Jul 24, 2025

Pluggable Optical Modules: Transceivers for the Cisco ONS Family

Cisco offers a comprehensive range of pluggable optical modules for the Cisco ONS family of multiservice platforms. The wide variety of modules gives you flexible and cost-effective options for

Nov 29, 2025

1.0.0 documentation OAK-D Pro W PoE

isible laser radiation when opened. Avoid direct exposure to There are no user serviceable parts with this laser product. Modification or service of the stereo module, specifically the infrared projector,

Aug 03, 2025

What is an Optical Module?

Explore the world of optical modules, essential components in optical fiber communication. Learn about the different types of optical modules, their

Jan 19, 2026

Understanding Optical Modules: Working Principles,

Explore the working principles, structures, and performance metrics of optical modules, essential components of optical fiber communication systems.

Nov 30, 2025

How to choose an optical fiber link and an SFP module?

What cables suit an SFP module? What distance can be there between SFP modules? And many other questions. The main advantages of optical fiber

May 18, 2026

OAK-D W - Luxonis

OAK-D-W Series 2 device incorporating wide field of view camera modules. Well suited for all the scenarios that require coverage of larger areas. Key Features

Apr 04, 2026

12MP IMX378 Camera Module for DepthAI OAK

Arducam IMX378 camera module can be used in almost all OAK products (OAK-D, OAK-D S2, OAK-D Pro, OAK-D-PoE, OAK-D S2 PoE, etc.) as the color camera. It is also compatible with OAK FFC

Contact Us

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