

100G of stock optical receivers



Article Overview

100G optical receivers are high-speed fiber optic modules designed to detect and convert 100-gigabit signals using coherent or direct-detect technologies, supporting DP-QPSK and 16-QAM modulation formats.

Overview

100G optical receivers are essential components in modern data center, enterprise, and telecom networks, enabling high-bandwidth connectivity over fiber optic links. They convert optical signals into electrical signals for further processing, supporting 100 Gb/s Ethernet and beyond. These receivers are available in coherent and direct-detect architectures, with coherent receivers offering superior performance for long-haul and metro networks due to advanced DSP and polarization management .

Key Technologies

- **Coherent Receivers:** Use Dual Polarization QPSK (DP-QPSK) or 16-QAM modulation to maximize spectral efficiency. Integrated designs often include optical hybrids, balanced photodetectors, and TIAs in a compact package, simplifying fiber routing and skew management .
- **QSFP28 Form Factor:** The 100G QSFP28 transceiver is the industry standard for 100G Ethernet, using four 25G lanes aggregated to 100G. Variants include SR4, LR4, CWDM4, and ZR4, optimized for different distances and fiber types .
- **Direct-Detect Receivers:** Typically used for short-reach applications, offering simpler design and lower cost but limited reach compared to coherent solutions

Article Content

Mar 04, 2026

Industry-First 100G ZR QSFP28-DCO with High Optical Output Power

Coherent announces general availability of the industry's first 100G ZR QSFP28-DCO featuring 0dBm optical output

May 19, 2026

Save on Cisco 100G and 400G optics

Take advantage of volume discounts for Cisco optics and maximize the port utilization on your switches and routers. This promotion

Mar 06, 2026

Coherent 100G-ZR Series Fiber Optic Transmitters, Receivers ...

Coherent 100G-ZR Series Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser offers

May 28, 2026

100G Optical and Electrical Tx/Rx

100G Optical and Electrical Tx/Rx Tektronix provides comprehensive Tx & Rx testing support for 100G standards along with testing

Aug 21, 2025

SUN-QSFP28-100G-LR4 Optical Transceiver

Sun Telecom's SUN-QSFP28-100G-LR4 series product is a 100Gbps transceiver module designed for optical communication

Sep 13, 2025

High Speed Optical Receiver Modules

Vertical Integration: From material growth through hybrid assembly and high-speed test In-house Design: Fast prototyping, optical

Dec 06, 2025

DP-QPSK 100 Gb/400 Gb Coherent Optical Receiver Lab Buddy

The DSC-R413 is an O/E instrument designed to convert DP-QPSK optical data to differential electrical signals. The R413 offers

Sep 01, 2025

100 Gb/s Transceivers Fiber Optic Transmitters, Receivers,

100 Gb/s Transceivers Fiber Optic Transmitters, Receivers, Transceivers are available at Mouser Electronics. Mouser offers

Mar 05, 2026

100G DWDM QSFP28 Transceiver Modules | Optical

FS 100G DWDM QSFP28 optical transceiver module solutions offer a full range of QSFP28 modules 80km

Nov 25, 2025

Understanding the 100G LR4 Transceiver for Modern Networks

A 100G LR4 transceiver enables 100Gbps data transfer up to 10km using single-mode fiber, ideal for high-speed, long

Jan 25, 2026

100G QSFP28 Transceiver Modules | Optical

The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres,

Apr 13, 2026

Optical Receivers Market Research Report 2034

The optical receivers market was valued at \$4.62 billion in 2025 and is projected to reach \$9.46 billion by 2034, growing at 8.2%

Mar 01, 2026

100G Coherent Transceivers

100G Optical Modules for Extended-Reach Data Center Interconnect; Metro and Regional Networks; and All Your Connectivity

Apr 24, 2026

Leading Optical Receiver Manufacturers Release 100G CCRx MSA

The MSA provides the receiver form factor, pin function definitions, pin locations, and functionality in a compact optical

Jan 09, 2026

Optical Receiver

Optical Receivers We know that high speed photodetection is critical to extracting and preserving your experimental results. We

Jan 15, 2026

Amphenol Cables on Demand

QSFP28 Optical Transceiver Modules (100G-SR/LR) Buy 100G QSFP28 Optical Transceiver Modules by Amphenol XGIGA Factory

Jan 22, 2026

QSFP28 DCO 100G Coherent Optical Transceiver

QSFP28-100G-DCO-ZR QSFP28 Digital Coherent Optics (DCO) transceiver supports 100G transmission

Jul 30, 2025

QSFP28 DWDM ZR 100GbE Universal Optical Transceiver | GBC

This device supports all kind of optical interfaces, like QSFP-DD, QSFP28, QSFP+, SFP28, SFP+, SFP, XFP, CFP, CFP2, CFP4.

Apr 23, 2026

Coherent 100G-ZR Series Fiber Optic Transmitters, Receivers ...

Mouser offers inventory, pricing, & datasheets for Coherent 100G-ZR Series Fiber Optic Transmitters, Receivers, Transceivers.

Aug 23, 2025

A 100-Gb/s PAM-4 Optical Receiver Integrated with All-Silicon

Abstract: This paper presents an optical PAM-4 receiver heterogeneously integrated with an all-silicon microring avalanche

Dec 14, 2025

100G ZR QSFP28 Digital Coherent Optics Transceiver

Built around Coherent Steelerton DSP, the 100G ZR QSFP28-DCO transceiver is fully compliant to the

Nov 05, 2025

Applied Optoelectronics Develops 100 Gbps PIN Photodiode Array

Applied Optoelectronics has successfully developed 100 Gigabits per second (Gbps) PIN photodiode (PD) arrays for

Apr 19, 2026

Get reliable QSFP28 100G/112G from US stock with fast shipping ...

Product description The QSFP-10010-LR4 is a long range single-mode 100G QSFP28 optical module compatible with the 100GBase

Sep 19, 2025

Optoplex Corporation

The integrated 100-Gb/s DP-QPSK receiver incorporates two 90° optical hybrids with four pairs of balanced photodetector (PD) and

Aug 17, 2025

25G/40G/50G/100G Optical Transceiver Modules | FiberMall

FiberMall offers 25G SFP28/40G QSFP+/100G QSFP28 Transceiver Modules designed with form factor, optical/electrical

Apr 01, 2026

100G/200G/400G Coherent Optical Receivers

Coherent Optical Receivers are designed for 100 Gb, 200 Gb and 400 Gb fiber optic communication systems. Optical Dual

Jul 03, 2026

A Compact Integrated Receiver Optical Sub-Assembly With High ...

A 25Gb/s guardring-free planar AlInAs avalanche photodiode (APD) and 100-Gb/s APD receiver optical sub-assembly

Apr 28, 2026

Causeway one work

One platform to plan, monitor, communicate and analyse traffic disruptions.

May 23, 2026

JTOPTICS 100G Transceivers | High-Performance 100G Solutions

100G Transceivers by JTOPTICS deliver high-speed optical data transmission and are ideal for data centers, enterprise networks,

Sep 11, 2025

A Comprehensive Guide to 100G Optical Transceiver□2025□

Modern data centers rely on high-speed optical links, and 100G optical transceiver modules (especially the QSFP28 form factor) are

Jan 29, 2026

Picometrix wins orders for 100G coherent receivers

Picometrix, a wholly owned subsidiary of Advanced Photonix, has received significant orders from two of its customers to supply

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