Neophotonics optical module



Overview

Genuine NeoPhontonics Transceiver ModulesExperience high-performance optical communication with the NeoPhotonics PT7620-31-2W ESFP transceiver module. Desi.

Key Takeaways

NeoPhotonics develops high-speed optical modules, transceivers, and photonic integrated circuits (PICs) for telecom, datacenter, and metro networks, supporting 100G and beyond coherent transmission. Product OverviewNeoPhotonics offers a wide range of optical modules and photonics products designed for high-bandwidth, ultra-high-speed communications networks. Their portfolio includes: Optical Transceivers: Small Form-Factor Pluggable (SFP), QSFP-DD, OSFP, and CFP2-DCO modules for data rates from 1.

25 Gb/s up to 400G and beyond, supporting long-reach and metro applications. Coherent Optical Modules: QSFP-DD and OSFP 400ZR modules enable 400G ZR+ connectivity over metro distances and 120 km data center interconnects. These modules leverage silicon photonics Coherent Optical Subassembly (COSA), Nano-ITLA tunable lasers, and 7-nm node coherent DSPs.

Photonic Integrated Circuits (PICs): High-level integration of hundreds of discrete components into a single chip, enabling compact, cost-effective, and high-performance modules for 100G and beyond networks. Tunable Lasers and Receivers: High-bandwidth receivers, tunable lasers, and broadband amplifiers for coherent and non-coherent optical communication. Other Components: Wavelength division multiplexing modules, laser drivers, ICs, photoelectric detectors, and optical systems for network and datacenter applications.

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Key Features and Technologies

Coherent Transmission: NeoPhotonics' modules implement coherent technology, using amplitude, phase, and polarization to increase data rates significantly over conventional on-off keying protocols. High Reliability: Modules undergo rigorous testing, including 2000 hours of High Temperature Operating Life (HTOL) and Telcordia compliance, ensuring robust performance in demanding environments.

Long-

Reach Capability: QSFP-DD 400ZR+ modules can achieve over 800 km reach in a 75-GHz DWDM grid, suitable for metro and regional networks. Vertical Integration: NeoPhotonics designs, fabricates, assembles, and tests PICs and modules in-house, accelerating product development and ensuring high quality. ApplicationsNeoPhotonics' optical modules are widely used in: Telecom Networks: Long-haul, metro, and regional backbone networks requiring high-speed coherent transmission.

Datacenter Interconnects: High-capacity links between large-scale data centers, supporting 400G and beyond. 5G Wireless Backhaul: High-speed optical links for mobile network infrastructure.

ROAD

M and Optical Switching: Modules integrated into reconfigurable optical add-drop multiplexer (ROADM) systems for flexible wavelength management. SummaryNeoPhotonics' photonics products and optical modules combine coherent technology, PIC integration, and high-speed transceiver formats to deliver reliable, scalable, and cost-effective solutions for modern telecom, datacenter, and metro networks. Their offerings include SFP, QSFP-DD, OSFP, and CFP2-DCO modules, tunable lasers, receivers, and integrated photonic circuits, supporting data rates from 1.

25 Gb/s to 400G and beyond, with applications ranging from long-haul telecom to high-speed datacenter interconnects.

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Article Content

Genuine NeoPhontonics Transceiver Modules

Experience high-performance optical communication with the NeoPhotonics PT7620-31-2W ESFP transceiver module. Designed for seamless data transmission, this module operates at a wavelength

NewPhotonics optical IC chips for pluggables and CPO

Your first-to-market optical signal processing chip innovation that delivers energy, bandwidth and manufacturing performance advantages. Scale with highly integrated photonic ICs built for low

Neophotonics

The NeoPhotonics PT7320-51-EW Optical Module is a high-performance solution designed for seamless data transmission. Offering a speed of 1.25Gbps, this ESFP optical module operates at a wavelength

Neophotonics CDM Class 60, 96G Baud Coherent Driver Modulator,

The CDM is designed to be used in 600/800 Gbps coherent transceiver modules and in linecard applications which leverage its small size, high bandwidth and low power dissipation.

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NeoPhotonics'' QSFP-DD and OSFP 400ZR coherent

NeoPhotonics Corp. (NYSE: NPTN) says its QSFP-DD and OSFP 400ZR pluggable coherent modules have reached general availability and are

Datasheet Archive: NEOPHOTONICS datasheets

View results and find neophotonics datasheets and circuit and application notes in pdf format.

NeoPhotonics develops SOA and NLW-DFB lasers to

Narrow linewidth and low phase noise lasers enable precise phase measurements required for coherent detection and optical amplifiers, thereby

Optical Components

Provides corporate revenue market share by end-market segment as well as the detailed market size for select optical components.

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Active Optical Module Market Research Report 2034

Active Optical Module market valued at $10.7 billion in 2025, projected to reach $35.6 billion by 2034 at 14.2% CAGR, driven by data center expansion and 5G deployment.

Lumentum Acquires Neophotonics

Neophotonics is a designer and manufacturer of hybrid photonic integrated optoelectronic modules and subsystems for bandwidth-intensive, high-speed communications networks.

5G Optical Module Market Research Report 2034

The 5G Optical Module market was valued at $5.6 billion in 2025 and is projected to reach $16.2 billion by 2034, growing at 12.5% CAGR.

Global Optical Transceivers Market Research Report 2026

The global Optical Transceivers market was valued at US$ 8684 million in 2025 and is anticipated to reach US$ 13500 million by 2032, at a CAGR of 6.6% from 2026 to 2032.

Optical Modules Market Size, Trends & Forecast 2025-2035 | Core

Discover Optical Modules Market trends, growth analysis, key segments, and regional insights. Forecast 2025-2035. Explore industry opportunities now!

AI drives ramp-up in datacom optics – report

Total shipments of leading-edge datacom optical modules are projected to tally over US$9 billion for 2024, according to the latest Optical

Optical Component Revenue Reaches Nearly $25B in 2025

BOSTON (January 7, 2026) – AI-driven datacenter and transport builds will push the optical components market revenue to a record high in 2025, with datacom revenue forecast to exceed $18 billion and

Passive Optical Network Module Market Size, Share, Growth

The Passive Optical Network (PON) module market is experiencing robust growth, driven by the increasing demand for high-speed internet connectivity and advancements in fiber-optic

1G SFP Optical Transceivers | SX, LX, TX Modules

Discover reliable and versatile 1G SFP optical transceivers fully compatible with Cisco, Huawei, Juniper, Arista, and more. Choose from SX, LX, and TX modules.

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