

# Optical Module Transceiver Chip Solution



## Overview

Build high-performance and power-efficient optical modules for wireless, data center and communication applications with our optical networking ICs. Our products simplify designs by integrating transceivers, transimpedance amplifiers, post amplifiers and laser drivers. They are. With the explosive growth of communication traffic in recent years, increasing the capacity of backbone networks has become more critical than ever. At the same time, the demand for "openness"—the ability to flexibly build networks and for "greenness", which addresses the need to reduce. Switch ASICs now integrate HBM and extend fabrics up to 60 miles to feed AI clusters. Links can carry 100-200 Gb/s on a single lane, hike symbol. SCALE CPO solution is the industry's first OCI MSA capable platform and built with GF's proven silicon photonics technology MALTA, N.

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As a VITA™ 57.1 FMC™, the Samtec 14 Gbps FireFly™ FMC™ Module can be used for optical data communication on any FPGA development board supporting high-speed multi-gigabit transceivers.



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NEC has been developing and manufacturing optical transceivers for more than 30 years since the dawn of the optical communications era. Based on this extensive experience, we provide high-reliability ...



MALTA, N.Y., May 4, 2026 – GlobalFoundries (Nasdaq: GFS) (GF) today announced the introduction of its SCALE™ optical module solution for co-packaged optics (CPO). GF's SCALE ...



LPO+™ NPG102 Series with Optical Equalizer LPO+ chip solutions with integrated, programmable optical equalizer for 1.6T and 800G linear pluggable optics (LPO) transceiver modules. Built for ...



The FS 800G LPO transceiver emerges as a powerful solution for data centers aiming to minimize their energy footprint and reduce operational costs. Significantly Reduced Latency By eliminating DSP ...



Markets Datacenter and Communications Datacenter Enable ultra-high-speed data transmission and optimized power efficiency for hyperscale and enterprise datacenters with our advanced optical ...



800G Optical Transceivers: Emerging High-Density Solution Key Enabling Technologies Today's 800G optical transceiver uses next-generation DSP chips and high-speed VCSEL lasers. ...



The chip solutions in optical transceiver modules—including transmitter chips (LD + laser driver), receiver chips (PD + TIA + LA), DSP chips, and control chips—collectively determine data ...



Pluggable optical transceiver modules are essential components in data communication systems, widely used as optical interconnects at the termination of fiber optic links. These modules perform the ...

## Contact Us

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