

1 6T Custom-Made Active Optical Components from the USA



Article Overview

High-performance 1.6T optical transceivers and active optical components are available from US-based manufacturers like US OPTO, Vitex LLC, and OpenLight Photonics, designed for AI, HPC, and cloud data centers.

US-Based Manufacturers and Offerings

US OPTO manufactures 1.6T, 800G, and 400G optical transceivers in Fremont, California, with high-volume production in Penang, Malaysia. Their modules support OSFP and QSFP-DD form factors, validated for spine-leaf fabrics, GPU cluster interconnects, and data center interconnects. They offer custom firmware, pre-assembled kits, and customer-branded labeling, ensuring seamless integration with switches from Arista, Cisco, Juniper, and NVIDIA, while maintaining high signal integrity and reliability for AI and cloud workloads. Vitex LLC provides 1.6T and 800G optical transceivers and custom Active Optical Cables (AOCs) for demanding networks, including AI clusters, medical imaging, and military applications. Their US-based engineering team validates modules for low latency, TAA compliance, and multi-vendor interoperability, offering rapid technical support, kitting, labeling, and ECO services. Modules are optimized for NVIDIA/AMD GPU fabrics and high-speed backbones. OpenLight Photonics offers 1.6T PASIC (Photonic ASIC) platforms and fully integrated optical transmitter interconnect chips. Using heterogeneous integration of InP-based lasers, EAMs, and other active components on silicon, OpenLight enables high-bandwidth, low-power, and thermally efficient solutions for AI, HPC, and machine learning applications. Their platform supports co-packaged op...

Article Content

Precision Optical Components | Jenoptik USA

Precision optical components are ideal for measuring, analyzing, structuring and processing using light - precisely and with low light

Optical Transceivers

Explore AOI's portfolio of optical transceivers from 40G to 1.6T, including 800G, 400G, and CPO/NPO

POET Technologies and Semtech Launch 1.6T Optical Receivers for

Evaluation units of the 1.6T DR8 and 1.6T 2×FR4 Receiver Optical Engines are available now for qualified customers.

AOI Receives First Volume Order of 1.6T Data Center Transceivers

"We are seeing a clear progression toward higher-speed optics as AI clusters scale, and our transceiver portfolio

NHL Schedule

The complete 2026 NHL season schedule on ESPN. Includes game times, TV listings and ticket

Beyond Speed: The Technical Hurdles of 1.6T Optical Transceivers

Technical hurdles of 1.6T optical transceivers include signal integrity, power, and cooling, driving a connector

Optical DSP

Credo's low-power optical DSPs enable 50G 1.6T PAM4 transceivers and active optical cables for cloud-scale data centers and AI

Product-Optical Transceiver-ACON OPTICS

Description The surge of AI and data-intensive workloads demands ultra-fast, energy-efficient connectivity. ACON OPTICS' 1.6T,

Eoptolink Demonstrates 1.6T LRO Modules at OFC 2025

We will be showing live demonstrations of a 1.6T, 800G, LPO, LRO and MCF optical transceiver solutions, at the

1.6T/800G InfiniBand XDR Transceivers/DACs In

NADDOD delivers 1.6T/800G InfiniBand XDR solutions for HPC and AIDC environments, combining

The Best in Optical Manufacturing | OSE Optics

At OSE Optics, we redefine the boundaries of optical engineering, standing as an industry leader in the

Mark Optics Providing Quality Optical Components

Mark Optics is a contract manufacturer of optical components specializing in extremely thin optical

Custom Optics Design & Manufacturing

JML Optical Industries, LLC recently launched QuickTurn Optics™, a rapid prototyping capability for custom, precision optical lens

Custom Optical Components & Assemblies

Building on a century-long heritage of optical manufacturing and leveraging our global footprint of state-of-the-art production facilities,

Home Audio Systems, Speakers & Accessories

Welcome to Emotiva Audio Corporation. Home Audio Systems, Speakers & Accessories and more. We use science to evoke the

Custom optical components for Various Applications | Special Optics

Special Optics offers advanced optical components for diverse applications. From high-quality lenses to custom optical solutions, find

Custom Optics | Custom Lenses & Assemblies

Custom Optics Manufacturing Tolerances From design through specification, we'll help you choose the best custom solution for

POET Teralight 1.6T Optical Engines

With POET's optical engines, a single design team can build both 1.6T DR8 and 2xFR4 pluggable modules

Genuine Optics Unveils Groundbreaking 1.6T AEC & ACC Copper

San Francisco, CA - [April 1,2025] - Genuine Optics USA, a global leader in full-portfolio optical transceivers, today announced the

Custom Optics | Suppliers | Photonics Buyers' Guide | Photonics Marketplace

A custom optic refers to an optical component that is designed, manufactured, and tailored to meet specific requirements or

Genuine Optics Unveils Groundbreaking 1.6T AEC & ACC Copper

Powering AI Factories with Unmatched Energy Efficiency and Cost Performance San Francisco, CA - [April 1,2025] -

1.6T Transceivers Explained: Advantages, Types & FS Solution

Explore the evolution of 1.6T optical transceivers, including their working principles, key technologies, module types,

Custom Optical Components

Manufactured in the USA Custom Optical Components Examples What are Custom Optical Components? Guild Optical Associates

Thorlabs · Home

With our photonics engineering expertise and extensive manufacturing experience, Thorlabs is uniquely

AOI Receives First Volume Order of 1.6T Data Center Transceivers from

March 9, 2026 – Sugar Land, TX – Applied Optoelectronics Inc. (NASDAQ: AAOI), a leading provider of advanced optical and HFC

PFG Precision Optics | Optics, Perfected

PFG Precision Optics specializes in manufacturing high-quality custom optical components, including

A leading manufacturer of optical components in the US

Manufacturing Esco Optics is a leading manufacturer of optical components in the United States as well as military and defense

Tower Optical Corporation custom precision optics USA Made

Tower Optical Corporation is a leading provider of high-quality optical components and systems for a wide range of

Custom Optical Assemblies

Custom optical assemblies consist of complex combinations of optical components and mechanical and electronic hardware. Such

1.6T Optical Transceivers | POET Technologies | Oct 2025 | Photonics ...

SAN JOSE, Calif., Oct. 13, 2025 — POET Technologies' 1.6T receiver optical engines are designed for AI and cloud networks. The

AOI Receives First Volume Order of 1.6T Data Center Transceivers

SUGAR LAND, Texas, March 09, 2026 (GLOBE NEWSWIRE) -- Applied Optoelectronics Inc. (NASDAQ: AAOI), a leading provider

1.6T Transceivers Explained: Advantages, Types & FS Solution

This article explains how this new 1.6T rate emerged, what the technical principles and key features of 1.6T optical

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