

Manufacturer s 1 6T laser diode



Article Overview

Coherent and MACOM are leading manufacturers of 1.6T laser diodes, offering high-speed CW lasers and arrays for silicon photonics transceivers.

Key Manufacturers and Products

Coherent Corp. produces high-efficiency continuous wave (CW) distributed feedback (DFB) lasers specifically designed for 1.6T silicon photonics transceivers. These lasers operate in the O-band (around 1310 nm) and are optimized for 800G and 1.6T optical modules. Coherent's CW InP lasers feature a low series-resistance design, achieving approximately 15% higher power efficiency than industry standards, which is critical for AI-driven data center applications. They are available in single-laser and array configurations, supporting high-speed optical communication needs . MACOM Technology Solutions offers 100 mW and 75 mW CW lasers for 1.6T applications, available as single lasers or in 8-channel and 16-channel arrays. These lasers utilize MACOM's Etched Facet Technology (EFT) for high reliability and performance, suitable for DR4 and DR8 optical modules. MACOM also provides complementary components like backside illuminated photodiodes (MARF-BP112) and VCSEL drivers (MALD-40435) to optimize system integration and thermal management .

Other Notable Manufacturers

A broader list of laser diode manufacturers includes Frankfurt Laser Company, OSI Laser Diode, Inc., ProPhotonix, and Excelitas Technologies, which supply a range of FP, DFB, and DBR laser diodes, modules, and optics for telecommunications, medical, industrial, and scientific applications . Authorized distributors like Mouser Electronic...

Article Content

Jan 29, 2026

Laser diode

A laser diode (LD, also injection laser diode or ILD or semiconductor laser or diode laser) is a semiconductor device similar to a light

Dec 26, 2025

Laser diode

Find your laser diode easily amongst the 84 products from the leading brands (OVIO INSTRUMENTS, Changchun New Industries,

Apr 11, 2026

U.S.Lasers

Custom Services available are: wavelength sorting, consulting, R& D, design work, & manufacturing of your product. US-Lasers, Inc.,

Aug 13, 2025

Laser Diode Selection Guide (ALL MANUFACTURERS)

We try to help our community of laser scientists & engineers find the best products for their projects by hosting a free Open-Index

Oct 19, 2025

Coherent Launches High-Speed Photodiodes for 1.6T Transceivers

"Their high bandwidth and excellent optical characteristics allow our customers to develop high-speed optical

Feb 03, 2026

Best Laser Cutters and Engravers 2026: Diode, CO2

Best Portable Laser Designed with craft vendors in mind, this diode/IR Galvo laser engraver is super

Sep 04, 2025

Diode Lasers | Suppliers | Photonics Buyers' Guide | Photonics

Explore 138 top manufacturers and suppliers of Diode Lasers in our comprehensive photonics buyers' guide. A diode laser is a type

May 26, 2026

Laser Diodes - Buyer's Guide & Supplier List | RP Photonics

This buyer's guide for laser diodes provides technical background, comparison of major types, selection criteria, and an overview of

Dec 20, 2025

Laser Diodes

A Laser Diode is a type of semiconductor device that produces coherent light through the process of stimulated emission. Laser

Aug 13, 2025

ProPhotonix: OEM LED Lights and Laser Modules

ProPhotonix is a OEM LED lights and laser diode modules manufacturer of machine vision lighting and a

Nov 15, 2025

Source Photonics Unveil its Complete Solution of 1.6T and 800G

Source Photonics' latest 1.6T product series includes DR8, 2xFR4 optical modules and DAC/ACC copper cables.

Jun 07, 2026

Laser Diodes, Modules | Optoelectronics | DigiKey

Shop DigiKey's large in-stock selection of Laser Diodes, Modules. View inventory, pricing and order now for same day shipping!

Mar 07, 2026

Coherent launches high-speed InP photodiodes for 1.6T transceivers

Materials, networking and laser technology firm Coherent Corp of Saxonburg, PA, USA has announced the

Jan 24, 2026

Laser Diodes | Opto Electronics | ROHM Semiconductor

Laser Diodes Semiconductor lasers are opto devices often referred to as laser diodes or LDs. ROHM is the industry's largest

Dec 24, 2025

Laser Diodes by Wavelength

Laser diodes, which are capable of converting electrical current into light, are available from Thorlabs with

Feb 26, 2026

High-Efficiency Lasers for Silicon Photonics Transceivers

Designed to operate in the O-band (1310 nm region), the Coherent CW InP lasers redefine the capabilities of silicon

Oct 16, 2025

Laser Diodes – Mouser

Laser diodes are available at Mouser Electronics from industry leading manufacturers. Mouser is an authorized distributor for many

Oct 05, 2025

Source Photonics Announce the Product Availability of

The multiple variants of EML, Silicon Photonics and InP PIC solutions are available for the 1.6T DR8

Nov 12, 2025

High Power Laser Diodes

Laser Diode Manufacturers ProPhotonix distributes Ushio, Osram, QSI and Ondax semiconductor laser diode products ProPhotonix

Oct 30, 2025

Laser Diodes | Components to Systems | UV-LWIR

Our vast selection of laser diodes includes both free-space & fiber-coupled outputs, like high-power Fiber

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