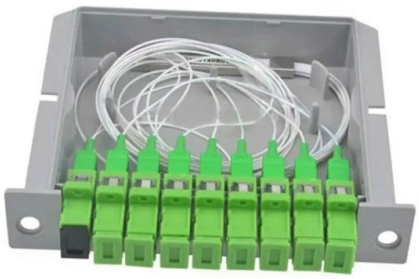
1550nm Optical Module Manufacturer



Overview

Compact 1550 nm 20 mW high performance laser module with proven narrow linewidth single frequency laser for OEM applications.

Key Takeaways

Key manufacturers of 1550nm optical modules include SemiNex, RIO Lasers, Excelitas, and Archcom Technology, offering a range of laser diodes, transceivers, and integrated modules for telecom, sensing, and LIDAR applications. Leading Manufacturers and Suppliers1.

Semi

Nex Semi

Nex produces 1550nm diode lasers in various configurations, including B-Mount, C-Mount, Chip on Submount, and multi-chip modules. Their lasers are widely used in telecommunications for fiber testing, OTDR systems, and high-power applications due to their reliability and high output power. 2.

RIO Lasers RI

O Lasers offers the ORION 1550nm laser module, a compact, self-contained solution with high output power, low noise, and ultra-narrow linewidth. These modules are suitable for fiber optic sensing, LIDAR, distributed temperature and strain monitoring, and high-resolution spectroscopy. They support integration via SPI, RS-232, or RS-485 interfaces.

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3. Excelitas Technologies Excelitas provides 1550nm pulsed semiconductor laser diodes in various packages, including single, dual, and quad stack configurations. These lasers are designed for eye-safe rangefinding, LiDAR, and military or aerospace applications.

Their PV

G series offers high efficiency, reliability, and compatibility with InGaAs APDs for advanced photonic systems. 4. Archcom Technology Archcom's AC5920 Series 1550nm MQW-DFB laser diodes are designed for long-haul fiber optic transmission up to 100 km.

These modules feature built-in TEC, thermistor, and monitor photodiode, with hermetic 14-pin butterfly packaging, making them suitable for DWDM systems and high-speed optical communication. 5. Distributors Mouser Electronics and similar distributors provide access to a wide range of 1550nm singlemode fiber optic transmitters, receivers, and transceivers from multiple manufacturers, offering datasheets, pricing, and inventory for OEM integration.

Applications

Telecommunications: Long-haul and metro fiber optic networks, DWDM systems. Sensing and Metrology: Distributed temperature, strain, and acoustic monitoring.

LIDA

R and Rangefinding: Eye-safe pulsed lasers for autonomous vehicles and defense. Industrial and Military: Free-space optics, high-power testing, and precision measurement. These manufacturers provide a variety of packaging options, power levels, and integration capabilities, allowing selection based on application requirements, whether for high-power pulsed systems, continuous-wave telecom modules, or compact OEM-ready solutions.

Article Content

ORION 1550 nm Laser Module

Compact 1550 nm 20 mW high performance laser module with proven narrow linewidth single frequency laser for OEM applications.

Unlock Next-Gen Performance: Shijia Photons'' 1550nm DFB Laser

Engineered for precision, Shijia Photons'' 1550nm DFB laser series (DFB chip can reach 100kHz linewidth, up to 200mW) delivers exceptional reliability for LiDAR, telecom, and sensing.

1550nm PM Fiber Coupled Acousto-Optic Modulator

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Idealphotonics specialize in providing optical components for high power fiber laser and amplifier systems. In-house control of critical manufacturing processes; from crystalline material selection and

Low-Noise, Narrow-Linewidth Laser Systems, 1550 nm

Thorlabs'' single-frequency, turnkey, low-noise laser systems are ready-to-use laser systems that integrate our ULN15PC or DFB1550P diodes with a low-noise

1550NM LASER DIODES

Classified as “retina-safe,” laser devices integrating 1550nm wavelengths are becoming more widely used in consumer and industrial applications. SemiNex provides diode lasers with wavelengths of

Tunable Laser, 1550nm Range C-Band, ECL

In addition to unrivaled reliability (Telcordia GR-486 qualified) and robustness, the ORION 1550nm tunable laser modules provide superior value with up to 20mW output power, very low RIN, ultra low

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise

Laos LS-SM5506-A2I SFP 622Mbps 1550nm 120km DOM Duplex LC SMF Optical ...

LINK-PP LS-SM5506-A2I SFP 622Mbps Duplex LC Optical Transceiver Module (SMF, 1550nm, 120km, LC, DOM, Industrial) Product Features Supports up to 622Mbps bit rates Hot-pluggable SFP footprint

Cable TV Passive Fiber Mini Receiver Module 1550nm SC/APC to F

Buy Cable TV Passive Fiber Mini Receiver Module 1550nm SC/APC to F-Head FTTH Passive Optical Receiver Adapter, with Filtering Function, for Conversion of Fibre to CaTV Signal with fast shipping

What is an Optical Module?

Explore the world of optical modules, essential components in optical fiber communication. Learn about the different types of optical modules, their functions, packaging, and key technical concepts like

chad LS-SM5510-A2C SFP+ 10GBASE-ZR 1550nm 120km DOM

LINK-PP LS-SM5510-A2C SFP+ 10GBASE-ZR SMF Optical Transceiver Module (SMF, 1550nm, 120km, LC, DOM) The LS-SM5510-A2C SFP+ transceivers are high performance, cost effective

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15km Optical Transceiver Buying Guide

The phrase "15km transceiver" refers to an optical module optimized for intermediate-to-long reach (Intermediate Reach / LR), typically using 1310nm or 1550nm wavelengths over Single-Mode Fiber

new Zealand LS-BL315501-15C SFP 155Mbps BiDi 1310nm-TX/1550nm

LINK-PP LS-BL315501-15C SFP 155Mbps BiDi DOM Simplex Optical Transceiver Module (SMF, 1310nm-TX/1550nm-RX, 15km, LC, DOM) The LS-BL315501-15C SFP transceivers are high

10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver

Get 10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver from ETU-Link Technology CO .,LTD,we supply excellent SFP+ 10G BiDi 70KM SFP Module. Long using life,high

Hilink Optics QSFP QSFPDD OSFP 10G SFP transceiver, Optical

If you have any questions about Hilink Optics CWDM DWDM QSFP QSFPDD OSFP 10G SFP transceivers,we will give the professional solutions to you.

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What Is a 1550nm Optical Transceiver and How Does It Work?

Discover how a 1550 nm optical transceiver converts electrical signals into light for long-distance fiber links. Learn its benefits, tech specs, and LINK-PP models.

1550nm Butterfly SOA 14PIN | YB Photonics

Semiconductor optical amplifier (SOA) JSA-BT515G25 series products are mainly applied to 1550nm wavelength optical amplification, which can significantly

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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