

Article Overview

Leading manufacturers of 10G SFP optical modules include AscentOptics, 10Gtek, Cisco, Huawei, and Hikvision, offering a wide range of module types and transmission distances.

Key Manufacturers and Offerings

AscentOptics produces a comprehensive line of 10G SFP+ modules suitable for industrial and harsh environments. Their products include 10G copper SFPs (30m/80m over Cat6a/Cat7), SR modules for 300m over multimode fiber, and single-mode fiber modules supporting distances from 10km up to 120km. They also offer BIDI, CWDM, DWDM, and tunable SFP+ modules with advanced EMI shielding and wide temperature tolerance. 10Gtek specializes in SFP+, QSFP+, and XFP transceivers, as well as DAC and active optical cables. Their SFP+ modules support 10Gbps transmission over fiber or copper, with distances up to 100m for active optical cables. 10Gtek emphasizes high-quality manufacturing with automated assembly, EMI shielding, and signal integrity testing, making them suitable for data centers and high-performance computing environments. Cisco offers 10GBASE SFP+ modules for data center, enterprise, and service provider applications. Their modules include 10GBASE-T with RJ-45 connectors for copper cabling (up to 30m) and 10GBASE-SR/LRM for multimode fiber (up to 400m on OM4). Cisco modules feature hot-swappable design, digital optical monitoring, and interoperability with XENPAK, X2, and XFP interfaces. Huawei provides 10GE SFP+ optical modules, including single-fiber bidirectional (BIDI) modules that must be used in pairs. Their modules support various wavelengths and distances, such as 10Gbase-ER modules with 40km reach, and BIDI modules with 20km effective transmission due to wavelength and sensitivity differences. Hikvision also offers 10G SFP+ modules, though product details are limited. Their modules are designed for controlled environments and may require firmware updates for optimal performance.

Module Types and Applications

- o SR (Short Range): Multimode fiber, typically up to 300-400m.
- o LR/ER (Long/Extended Range): Single-mode fiber, 10-40km or more.
- o BIDI (Bidirectional): Single-fiber modules used in pairs for duplex communication.
- o CWDM/DWDM: Wavelength-division multiplexing for high-capacity fiber networks.
- o 10GBASE-T: Copper-based SFP+ modules for short-distance connections over Cat6a/Cat7 cables. These modules are widely used in data centers, enterprise networks, telecom infrastructure, and industrial applications, offering hot-swappable, compact, and high-density connectivity solutions. By selecting a manufacturer, consider distance requirements, fiber type, module compatibility, and environmental conditions to ensure optimal performance and interoperability.



Manufacturer SFP Optical Module 10G

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit

The SFP-10G-BXD-I and SFP-10G-BXU-I SFPs also support Digital Optical Monitoring (DOM) functions according to the industry

Cisco SFP-10G-LR Compatible SFP+ Module - 10GBASE-LR - 10GbE Single Mode Fiber SMF Optic Transceiver - 10GE Gigabit

Quality Assurance Every Sanoc 10GBase-T SFP+ transceiver undergoes rigorous testing throughout the

SFP+ 10G Optics & DAC Cables including copper RJ45, multimode and single mode, Bidirectional, and CWDM/DWDM up to 80km

10G SFP+ Transceiver (enhanced SFP, also known as SFP Plus) is a next-generation optical module specified by the ANSI T11

Does this module work in Cisco, Juniper, Aruba, or other vendor equipment? The 10G-SFP-10 can be

Online shopping. w/24h-delivery, 7Days & Refund Guarantee. CE, RoHS and ISO9001 Certified. SFP+ Cables, QSFP+ Cables,

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+

The AMG SFP-10G series are industrial high speed 10Gb Ethernet SFP's offering support for multiple cable types including copper

The Complete Guide to the Best Choice of 10G SFP+ Optical Modules 10G SFP+ Function Introduction 10G SFP+ (Small Form

Juniper's portfolio of qualified 10G and 1G optical transceivers are low-cost multipurpose modules available in footprint-optimized

10G SFP+ optical module is a popular category widely used in data centers, enterprise networks, edge devices, and

10G SFP+ Transceiver Sopto SFP+ transceiver are multi-purpose optical modules for 10Gbit/s data transmission applications at

Our 10G SFP+ modules are available for both multimode and single-mode fiber, using 850nm VCSEL, 1310nm DFB, or 1550nm EML



Manufacturer SFP Optical Module 10G

Learn everything about 10GB SFP modules, including types, specifications, compatibility, and how to choose the right 10G SFP+

Web: <https://www.in-au.co.za>

