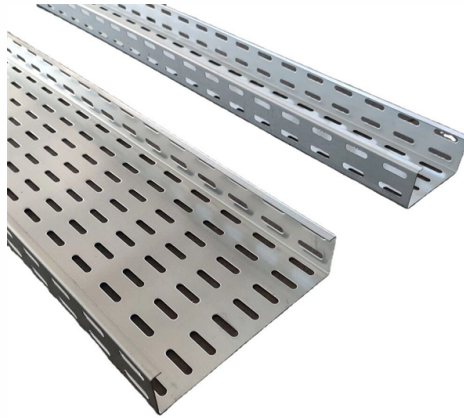


# Optical Module Manufacturer HXB



## Overview

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## Key Takeaways

HXB refers to both Huawei optical transceivers and X-BEAM Tech expanded beam connectors, each serving distinct applications in fiber optic networks.

## Huawei HXB Optical Transceivers

Huawei uses the HXB designation for certain optical transceivers, including SFP and GPON modules. Examples include: Huawei SFP 10G HXB: A short-range SFP+ transceiver operating at 1310nm with a transmission distance of 0.1 km, designed for high-speed 10G data transmission in networking environments, offering low power consumption and high signal integrity (TOB Technologies).

## GPON OLT CLAS

S B+ HXB: A GPON optical transceiver for OLT applications, supporting downstream speeds of 2.488 Gbps and upstream speeds of 1.244 Gbps, with a reach of up to 20 km.

It is compliant with ITU-T G.984.2 and G.

984.5 standards, features Digital Diagnostics Monitoring (DDM), and is hot-swappable for easy integration into Huawei OLT platforms.



## These HX

B modules are primarily used in FTTH (Fiber To The Home) and FTTx access networks, providing reliable broadband connectivity. X-BEAM Tech HXB Connectors Separately, X-BEAM Tech, a South Korean company, manufactures HXB expanded beam connectors. Key features include: Expanded Beam Technology: Uses a lens system to expand, collimate, and refocus optical signals without physical contact, reducing sensitivity to dirt, vibration, and misalignment.

Durability and Maintenance: Non-contact design allows frequent connections/disconnections with minimal wear, easy field cleaning, and long lifespan. Applications: Suitable for harsh environments such as military, aerospace, industrial, broadcasting, outdoor telecom, and data centers. Company Background: X-BEAM Tech, established in 2013, specializes in rugged fiber optic products and ISO 9001 certified manufacturing.

## Summary

### Huawei HX

B: Refers to optical transceivers (SFP, GPON) used in high-speed data and broadband networks. X-BEAM Tech HXB: Refers to expanded beam fiber optic connectors designed for rugged and demanding environments. Understanding the context of "HXB" is crucial, as it may refer to either Huawei's optical modules for network deployment or X-BEAM Tech's connectors for industrial and military applications.

## Frequently Asked Questions

### What does an optical transceiver do?

Optical modules are mainly packaged by optoelectronic devices TOSA/ROSA, functional circuits and optoelectronic interface components. The optical t...

### What is the optical module industry chain?

The upstream industry of optical modules mainly includes optical chips, optical components and optical devices, and the downstream industry mainly...

### Who are the main manufacturers and suppliers in the optical module industry chain?

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## Article Content

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Expanded Beam Fiber Optic Connectors | IP68 Rugged

The HXB Series provides rugged, high-performance fiber optic connectivity using non-contact expanded beam technology, ensuring stable signal transmission

10 companies in the optical transceiver industry chain 2024

To help you choose the best partner, this article will analyze and introduce 10 companies in the optical transceiver industry chain for you.

X-BEAMTECH

Our HXB connectors utilize Expanded Beam technology to provide robust and reliable optical connectivity in harsh and demanding environments where traditional physical contact fiber optic

850nm 0.3km MM HXB Huawei 10G High Quality SFP+ Transceiver

Enhance your network with the Huawei 850nm 0.3km MM HXB SFP+ Transceiver — trusted for performance, reliability, and global compatibility. Request your quote today for wholesale pricing,

GPON OLT CLASS C+ HXB Huawei Brand New Optical Transceiver

The GPON OLT Class C+ HXB Huawei Optical Transceiver is a high-performance pluggable module designed for OLT (Optical Line Terminal) systems in Huawei GPON networks.

10g 850nm 0.3km mm SFP+ Hxb Huawei Bulk Packed 10g SFP

Experience exceptional network performance with the 10G 1550nm 80km SFP+ optical transceiver LC connector, 10G 80KM SFP+SFP-10G-ZR. This top-of-the-line product, directly from Huawei,

Optical Transceiver Market: Top 10 Manufacturers Ranked

Optical transceiver market leaders: the top 10 manufacturers powering 400G and 800G modules for hyperscale data centers and AI networking.

LightCounting :: The TOP10 Transceiver Suppliers for 2024

The figure below illustrates the changes in the TOP10 list of optical transceiver suppliers over the last 15 years. A majority of the Japanese and US-based suppliers exited this market by 2020, while Chinese

Understanding Optical Modules: Working Principles, Structures, and ...

Explore the working principles, structures, and performance metrics of optical modules, essential components of optical fiber communication systems. Learn about key indicators such as

Top 10 Optical Transceiver Manufacturers in the World

Sourcing optics for your data center? Discover the top 10 optical transceiver manufacturers in 2026. Compare global giants and factory-direct OEM alternatives.

Explanation of Optical Module Parameters

In summary, we should select the appropriate optical module based on the actual usage scenario, including the operating environment, power consumption, parameters of the opposite-end

Installation and Maintenance Guide for Gigabit Optical Modules and 10 ...

As an essential component of network communication, optical modules have been widely used in various scenarios such as data centers, enterprise LANs, and WANs. An optical module is

Optical Module PCB Board Market: Drivers & 6.6% CAGR Impact?

The Optical Module PCB Board market is projected for 6.6% CAGR growth by 2025, driven by evolving tech applications. Access specific market values and company insights.

OSFP Transceivers: High-Density Optical Connectivity from 400G to

As hyperscale data centers shift toward AI-optimized fabrics and ultra-high-bandwidth switching platforms, the OSFP (Octal Small Form-Factor Pluggable) form factor has become central

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800G QSFP-DD Optical Module Market Revenue Forecast Driven

The Malaysia 800G QSFP-DD Optical Module Market is emerging as a strategic hub for optical component manufacturing and assembly, supported by government incentives and a growing

## Applications of Optical Module PCBs in AI Data Centers

In high-density AI data center environments, optical modules must operate reliably over extended periods, placing increasingly stringent requirements on PCB manufacturing quality and

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