

# **Huawei Optical Module Patents**





## Overview

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Huawei recently applied for an optical module and communication tech patent which aims to reduce the cost of manufacturing for effective camera sensors.

Abstract: An optical source link transmission device includes a sending end module and a receiving end module. This patent includes an all-new Adder Neural Network that goes beyond the constraints of existing AI computing frameworks to solve difficult mathematical bottlenecks in AI. It can reduce computing power consumption and circuit size by more than 70%, and support all-scenario AI application.



## Huawei Optical Module Patents

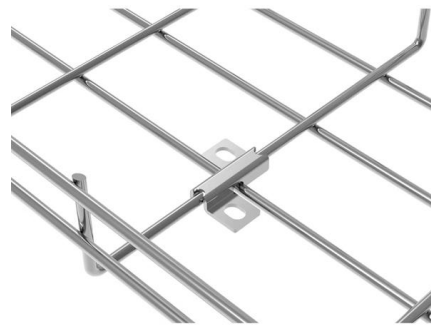


### Intelligent OptiX Network , OptiX , All-Optical Networking

Huawei's intelligent OptiX network strategy aims to build intelligent, simplified, ultra-broadband, and ubiquitous next generation all-optical networks.

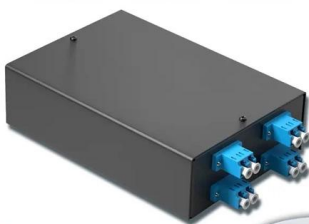
### Constructing Intelligent Ultra-High-Speed

The optical-layer AI neurons are a functional module integrated into the latest generation of Huawei oDSPs (also integrated into all OA nodes) to sense the running status parameters of all wavelength



4-port 8-core LC wall-mounted fiber terminal box (empty frame)

Surface painted    Scientific plate fiber    Cold-rolled steel plate



Lifetime quality assurance

Free shipping

Customizable for telecommunication

### Patents Assigned to Huawei Technologies Col., Ltd.

The present invention can provide an effective protecting measure for the photoelectric signal transmission in the optical source link, and improve the reliability of the photoelectric integrated device.

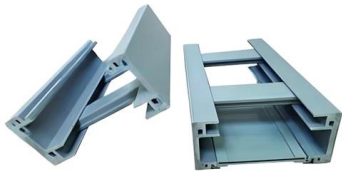
### Huawei Patent Portfolio Analysis

Huawei holds one of the largest patent portfolios among technology companies globally. In this report, we provide a comprehensive analysis of



### **Huawei OSX010000 SFP+ 10G Single Mode Optical**

Huawei OSX010000 SFP+ 10G transceiver for single-mode fiber, 1310nm wavelength, 10km range. Compliant with 10Gbase-LR standard.



### **Co-Packaged Optics at the IPEC**

Industry Patents 1300+. Provide competitive optoelectronic solutions. 6.4T+ capable at full density to meet volume demand specification. 200G/s/fibre required. The ultimate target is higher density



### **Huawei technologies co., ltd. (20250013015). OPTICAL LENS,**

OPTICAL LENS, CAMERA MODULE, AND ELECTRONIC DEVICE This abstract first appeared for US patent application 20250013015 titled 'OPTICAL LENS, CAMERA MODULE, AND ELECTRONIC



## OPTICAL MODULE

(57) This application discloses an optical module, which may be applied to a terminal device, for example, a mobile phone or a tablet computer.

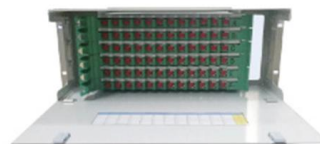


### Innovation and Intellectual Property

Huawei also holds more than 30,000 granted patents in the U.S., and about 20,000 in Europe. Huawei has also remained the largest filer of PCT applications for nine consecutive years.

### Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service



### New Patent reveals Huawei working on improved optical

Huawei has issued a new patent and this time it is related to the optical chips and communication equipment. The Chinese tech giant aims to



## Optical computing interconnect technology landscape 2026

Optical computing interconnect patents and research 2026: silicon photonics, co-packaged optics, FSO, and fiber switching -- mapped across hyperscalers, chipmakers, and academia.

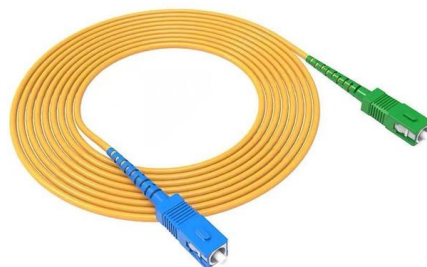


## Optical Module and Electronic Device

This application claims priority to Chinese Patent Application No. 202011613157.3, filed with the China National Intellectual Property Administration on Dec. 29, 2020, and entitled "OPTICAL MODULE"

## Telecom Optical Module Market Research Report 2033

The Telecom Optical Module market was valued at \$24.8 billion in 2025 and is projected to reach \$47.3 billion by 2033, growing at 8.4% CAGR.



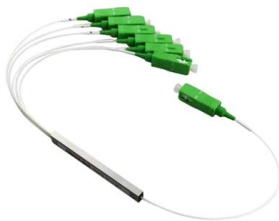
## Huawei White Paper on Innovation and Intellectual Property(2020)

Huawei actively protects its own intellectual property. Continuous R& D investments have made Huawei one of the world's largest patent holders. We are ready and willing to license our patents and



## How patents strengthen Huawei's AI hardware position

Traditional optical switches in AI systems face a key challenge: high signal quality often comes at the cost of complexity and expense, while simpler



## Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei Technologies Co. and originated in Shenzhen. Huawei Technologies Co.,

## HISILICON Optical Module Patented Technology Advantages

Huawei has obtained a number of patents in the field of optical modules, demonstrating a number of technical advantages. First, Huawei's optical module patents involve improving the



## Huawei Research Issue 04

Bringing together the wisdom of optical technology researchers, this issue of Communications of HUAWEI RESEARCH focuses on long-distance optical transmission, short-distance optical



### **Huawei patent shows new optical module with improved**

Huawei recently applied for an optical module and communication tech patent which aims to reduce the cost of manufacturing for effective camera



### **Huawei Technologies Co., Ltd. Inventions, Patents and Patent**

Huawei Technologies Co., Ltd. has filed for patents to protect the following inventions. This listing includes patent applications that are pending as well as patents that have already been

### **Huawei patents a smartphone design with attachable**

The Huawei P40 Pro Plus is currently the only smartphone to offer 10x optical zoom using a periscope lens. The company has further plans to lead in



### **Huawei applies for patents on optical modules, communication**

The patent abstract shows that the present application discloses an optical module, communication device, and PoE device, which belong to the field of optical communication technology.



## Google Patents

Search and read the full text of patents from around the world with Google Patents, and find prior art in our index of non-patent literature.



## Huawei Patent Portfolio Analysis

Analyze Huawei's patent portfolio for insights into 5G, AI, and tech innovation across global markets.



## Installing an Optical Module

Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper transceiver module is the same, except that the copper transceiver module



## Optical Modules in Intelligent Computing Scenarios

Optical Modules in Intelligent Computing Scenarios In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable



## Huawei Campus Optical Module Portfolio

When two optical interfaces have copper modules installed, the interfaces can be connected using a copper cable. Currently, Huawei offers only GE copper modules with RJ45 interfaces.



### **SFP-25G-LR-BXU1-I 02314LBS Huawei Optical Transceiver**

Optisk transceiver, SFP28, 25G, BIDI Single-mode Module (TX 1270nm/RX 1330nm, 10km, LC)

## Contact Us

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For datasheets, pricing, or custom high-speed optical interconnect solutions, please visit:  
<https://www.syropy.com.pl>