

Huawei s New Optical Module Patent Manufacturing



Article Overview

Huawei's latest optical module patent focuses on cost-effective, space-saving, and high-performance optical communication technology.

Overview of the Optical Module Patent

Huawei recently filed a patent (CN117767976A) for an optical module, optical communication equipment, and optical communication system designed to enhance performance while reducing manufacturing costs and device footprint . The module integrates a control unit, laser driving circuit, light-emitting sensor, and light-receiving component, enabling multiple working modes such as OTDR (Optical Time-Domain Reflectometry) and business mode. The control unit manages the operational mode and analyzes optical signal transmission, improving signal quality and reducing the impact of optical fiber on transmitted signals .

Key Features and Functionality

- Multi-mode operation: The module can switch between OTDR mode for signal analysis and business mode for standard communication .
- Laser-driven light emission: The laser driving circuit delivers signals to the light-emitting sensor, while the light-receiving sensor captures reflected or transmitted signals for analysis .
- Transmission performance analysis: This feature ensures seamless, cost-effective signal transmission and reduces space requirements within devices

Article Content

Huawei's new optical module patent: The light of innovation ...

Huawei's new optical module patent is expected to bring new breakthroughs to the optical communications industry.

Huawei plans new chip manufacturing technology

On 6th July 2021, Huawei discloses a new patent related to the laser chip with the publication number CN113054528A. As per the

HISILICON Optical Module R& D and Manufacturing Entity

HISILICON optical module R & D and manufacturing entities are mainly Huawei Wuhan Research Institute and

Optical Module Archives

Huawei patent shows new optical module with improved features Huawei recently applied for an optical module and communication

Huawei EUV Scanner Patent Suggests Sub-7nm Chips for China

In mid-November, Huawei filed an application with the State Intellectual Property Office for a patent covering an EUV

Huawei patent shows new technology to enhance chip development

Huawei issued a new patent to enhance the chip development of the company. The latest patent application shows

HISILICON Optical Module Shipments | Weyland

HISILICON's R& D and manufacturing entities for optical modules are mainly Huawei Wuhan Research Institute and

Future All-optical Network Architecture and Key Technologies

New Solutions Future All-optical Network Architecture and Key Technologies Evolving towards the 2030 optical communications

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

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

Abstract: Embodiments of the present invention disclose an optical signal compensation device, where, a nonlinear compensation

Huawei Patent Portfolio Analysis

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

WO/2025/083848 OPTICAL MODULE AND METHOD FOR

This patent search tool allows you not only to search the PCT database of about 2 million International Applications but also the

ELECTRO-OPTIC MODULATOR, MANUFACTURING METHOD

In view of this, this application provides an electro-optic modulator, a manufacturing method thereof, and an optical communication

Optical module manufacturing method and optical module

An optical module manufacturing method includes: forming a first waveguide layer and a second waveguide layer on a first substrate

U.S. Patent Application for OPTICAL MODULE AND METHOD FOR

An optical module according to an embodiment of the present disclosure includes a base material, an optical semiconductor element,

Huawei's EUV lithography machine goes into trial production: China's ...

Recently, Huawei, in collaboration with the domestic industrial chain, completed the installation and debugging of the

Intelligent OptiX Network | OptiX | All-Optical

Huawei's intelligent OptiX network strategy aims to build intelligent, simplified, ultra-broadband, and

Huawei technologies co., ltd. (20250110282). OPTICAL DEVICE

OPTICAL DEVICE ASSEMBLY AND METHOD OF MANUFACTURING SAME This abstract first appeared for US patent application

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra

Huawei Launches Four Innovative Optical Infrastructure Products ...

At HUAWEI CONNECT 2021, Huawei launched four innovative optical infrastructure products, which are set to

Huawei unlocks EUV chip manufacturing process according to patent ...

Huawei has cracked the EUV chip process according to patent filings made by the company in November. Huawei

Huawei's Patent Licensing is Garnering Success, EUV Could Help

Huawei's Patent Licensing is Garnering Success, EUV Could Help China Manufacture Cutting-Edge Chips Huawei

Huawei Unveils StarryLink Optical Modules That Deliver Ultimate

BARCELONA, Spain, March 6, 2025 /PRNewswire/ -- At the Mobile World Congress 2025 (MWC 2025), Huawei launched the

U.S. Patent Application for OPTICAL MODULE HOUSING AND

Embodiments of this application relate to the field of optical modules, and in particular, to an optical module housing and a

Huawei's 2nm Chip Patent: 7 things you should know

Huawei has been one of the top players in the mobile chip designing for years, and its research on new designs has

Huawei Launches Next Generation Optical Network Products and

In the optical transmission domain, Huawei has released Next Generation OTN products for OTN backbone, OTN

Optical module manufacturing method and optical module

Embodiments of the present application provide an optical module manufacturing method and an optical module, to reduce planar

Optical Module and Electronic Device

This application claims priority to Chinese Patent Application No. 202011613157.3, filed with the China National Intellectual Property

Optical Modules in Intelligent Computing Scenarios

Huawei provides a full series of pluggable optical modules. A wide variety of modules give you flexible plug-and-play options for all

As Huawei looks towards more advanced semiconductors, speculation ...

A Huawei patent has raised questions about how far it can push existing DUV chip-making equipment using a

Can the EUV scanner patent submitted by Huawei bring China's ...

They focused and directed light at a photosensitive wafer with an accuracy of tens of nanometers to map out the planar

WO2023026772A1

G01B11/27 — Measuring arrangements characterised by the use of optical techniques for measuring angles or tapers; for testing the

Can the EUV scanner patent submitted by Huawei bring China's ...

The patent application appears to cover all key components of an EUV scanner, including a 13.5 nm EUV light

Bidirectional optical sub-assembly and optical module

All of the aforementioned patent applications are hereby incorporated by reference in their entireties. This application relates to the

Huawei Launches OptiX for Good to Promote the Inclusive Development of ...

To improve the safety and efficiency of production, Huawei has helped Fast Automotive Transmission Group build an

Huawei's new optical storage system plan can reduce maintenance costs

According to the China Intellectual Property database, Huawei has published a new patent for n energy storage

Huawei Patent for 2nm-Class Chips Without EUV Lithography

Analysis of Huawei's 2022 patent outlining a method to manufacture 2nm-class semiconductors using older DUV technology instead

Huawei patent shows new optical module with improved features

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

Contact Us

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