

# Huawei 384 Optical Module





## Overview

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Huawei is gearing up to launch its CloudMatrix 384 rack-scale AI system, leveraging 384 Ascend 910C NPUs interconnected via an all-optical mesh network. It's designed to rival NVIDIA's GB200 NVL72, and early reports suggest it may achieve  $\sim 2\times$  the throughput in BF16 compute. In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid security). Deep dive into Huawei's AI super-node: 384 Ascend 910C chips, 6912 $\times$ 400G OSFP SiPh LPO modules (1:18 ratio), 1. On May 14, 2025, the "2025 Chip and Optical Forum" hosted by HiSilicon and organized by. Huawei's CloudMatrix 384 Supernode outperforms Nvidia's 180 PFLOPs NVL72 with 300 PFLOPs, higher memory bandwidth, and sanction-proof design, fueling China's AI infrastructure ambitions. China's latest domestically developed cloud supercomputing solution, CloudMatrix M8, was officially unveiled.



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### Huawei's SuperNode CloudMatrix384: Networking

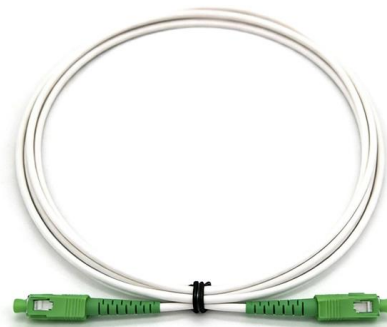
Huawei's 910C expansion relies on a hybrid optical + electrical interconnect, whereas NVIDIA primarily uses electrical interconnects. As

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### Huawei AI CloudMatrix 384 - China's Answer to Nvidia

Meet China's newest and most powerful Chinese domestic solution, the CloudMatrix 384 built using the Ascend 910C. This solution competes directly

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### Huawei Technical Support

Learn how to display optical module information on Huawei devices using specific commands and understand the diagnostic details of optical modules.

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### Huawei Technologies Pushes AI Computing Limits with

A few weeks ago during the World Artificial Intelligence conference (WAIC) in Shanghai, Huawei Technologies Co., Ltd. unveiled CloudMatrix 384, a



### **Play with optical interconnection, Huawei Ascend 384 super node**

The optical interconnection of Ascend 384 uses the Nebula optical module specially developed by Huawei HiSilicon for the optical interconnection scenarios of intelligent computing centers.

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### **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.,

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### **Huawei Debuts CloudMatrix 384**

Huawei has officially launched CloudMatrix 384, a massive AI computing system designed to rival Nvidia's top-performing GB200 NVL72. This

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## Huawei CloudMatrix 384: Chinese AI giant with high

Huawei recently started delivering its new CloudMatrix 384 AI clusters to Chinese customers - and is making no secret of its goal: technological

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## 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 (ultra-high reliability), and Secure (ultra-solid

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## Huawei CloudMatrix 384 Super-node: 6912×400G SiPh

CloudMatrix 384 super-node uses 6912 x 400G OSFP silicon photonic (SiPh) Linear Drive Pluggable Optics (LPO) optical modules and 3168

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## Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module quality. The functions include the installation and removal, transmit and

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## Huawei Optical Modules and Cables

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## Huawei's CloudMatrix 384: A Bold AI Architecture

Unlike Nvidia's GPU-centric approach, Huawei employs an all-to-all topology, connecting 384 Ascend 910C chips through advanced optical

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## Huawei Unveils CloudMatrix 384

Huawei has officially entered the AI supercomputing race with the launch of CloudMatrix 384, a large-scale AI training system designed to compete with Nvidia's most powerful offerings. Built

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## Huawei's new AI CloudMatrix cluster beats Nvidia's

At glance Huawei's CloudMatrix 384 is a rack-scale AI system composed of 384 Ascend 910C processors arranged in a fully optical, all-to-all

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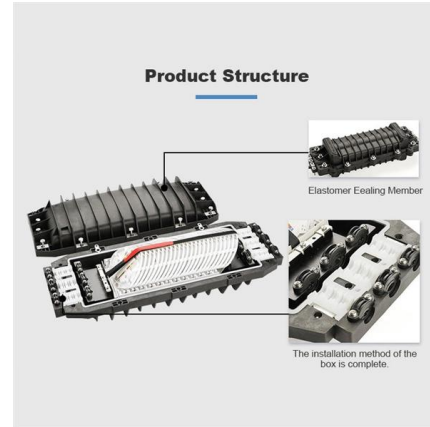




### **HUAWEI SFP+ 850nm 120m 6.1440G MM optical module**

HUAWEI SFP+ 850nm 120m 6.1440G MM SFP is a small form-factor pluggable module and eSFP is an enhanced small form-factor pluggable module. There is no difference between their major functions

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### **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.

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### **ALM-3276800044 An Optical Module Installed on the Device Is**

Possible Causes Cause 1: The optical module is not a Huawei-customized optical module. If this optical module was delivered from Huawei early. Cause 2: Temperature of the

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### **Huawei's SuperNode CloudMatrix384: Networking Advantages from**

At the 2025 Huawei Cloud Ecosystem Conference, the CloudMatrix384 (CM384) supernode once again attracted widespread attention in the industry. This article will provide a

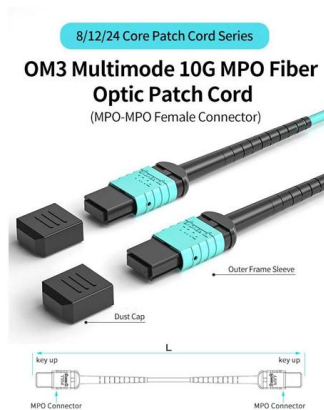
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## Notes: Huawei's 910C And CM384: A Strategic Shock

Finally, although using all optical modules allows Huawei to deliver larger scale up clusters with higher MFU and linearity whilst lowering down power

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### Pulling out the optical module and shutdown interface causes the

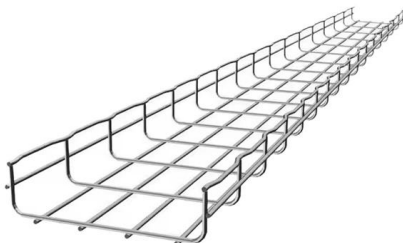
Solve the problem of alarm indicator steady on by clear the alarm after it is confirmed that customer pull out the optical module and shutdown interface manually

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## Inside Huawei CloudMatrix 384: 2xThroughput of

Introduction Huawei is gearing up to launch its CloudMatrix 384 rack-scale AI system, leveraging 384 Ascend 910C NPUs interconnected via an all

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### Huawei's CloudMatrix 384 Supernode: How This 300

Huawei's CloudMatrix 384 Supernode delivers 300 petaflops--beating Nvidia NVL72--via 384 Ascend 910C chips and optical interconnects.

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## Huawei's CloudMatrix 384: Powering Through the AI Arena

Huawei's CloudMatrix 384 is causing quite the buzz, and for good reason. Designed to compete with Nvidia's high-end GB200 NVL72 AI infrastructure, this new system is pushing

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## Troubleshooting for Optical Modules on Huawei Switch

Troubleshooting for Optical Modules on Huawei Switch Many friends feedback that one problems occurred when using optical modules on switches, now we are

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## Huawei's new AI CloudMatrix cluster beats Nvidia's GB200 by brute for

Chiplet design--910B is modular, scalable, and optimized for interconnects s laughed when China said it would go all-in on chiplets and optical IO. Now Huawei s CloudMatrix scales faster than Nvidia's X or

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## SemiAnalysis of Huawei CloudMatrix and the 910C

The CloudMatrix 384 super node utilizes 6,912 400G optical modules to build a high-bandwidth, low-latency optical interconnect network. The UB plane

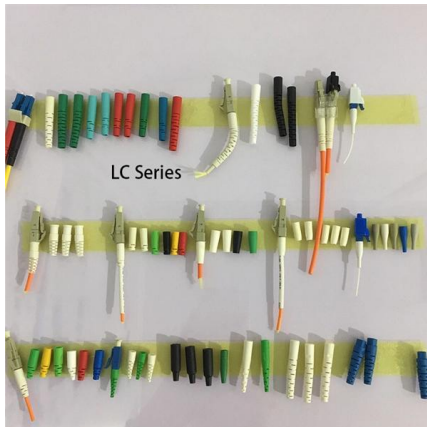
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## Huawei AI CloudMatrix 384 - China's Answer to Nvidia

Huawei recently introduced the CloudMatrix 384, a rack-scale AI solution powered by 384 Ascend 910C chips. This system delivers 300 PFLOPs of BF16 compute, outperforming Nvidia's GB200 NVL72 by

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## Huawei's CloudMatrix 384 Supernode: How This 300

Huawei's CloudMatrix 384 Supernode sets a new performance benchmark in AI hardware--achieving 300 PFLOPs through a high-density,

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