Huawei 384 Optical Module Details

Overview

CloudMatrix 384 super-node uses 6912 x 400G OSFP silicon photonic (SiPh) Linear Drive Pluggable Optics (LPO) optical modules and 3168 fibers, connecting 384 Ascend 910C computing chips through a complete mesh interconnection architecture. 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). Together, they ensure resilient data center interconnectivity and empower. Deep dive into Huawei's AI super-node: 384 Ascend 910C chips, 6912×400G OSFP SiPh LPO modules (1:18 ratio), 1. 2% failures stem from optics & how QSFPTEK cuts costs by 69. 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. Huawei announced the CloudMatrix 384 Supernode—a 16-rack AI compute cluster achieving 300 petaflops of BF16. This paper introduces Huawei CloudMatrix, a next-generation AI datacenter architecture, realized in the production-grade CloudMatrix384 supernode. It's designed to rival NVIDIA's GB200 NVL72, and early reports suggest it may achieve ~2× the throughput in BF16 compute. Let's explore how it. 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.

Article Content

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

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

10GE SFP+ Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information about each chassis, power module, fan module, card, cable, and

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,

Huawei AI CloudMatrix 384 – China''s Answer to Nvidia

Each CloudMatrix 384 pod has 6,912 400G optical modules / transceivers – 5,376 for scale-up and 1,536 scale-out. Each pod includes 384

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

Huawei Unveils CloudMatrix 384

Built with 384 of its in-house Ascend 910C chips and a new all-optical mesh interconnect, it marks a major milestone in China''s push for tech self-reliance.

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 ...

Huawei Technical Support

Discover how to view the serial number of an optical module with step-by-step guidance from Huawei Technical Support.

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

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 ...

Huawei''s CloudMatrix 384: A Bold AI Architecture

Huawei''s CloudMatrix 384 Supernode, powered by 384 Ascend 910C chips, rivals Nvidia''s GB200 NVL72 with 300 petaflops of AI compute

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

Huawei Technical Support

This document provides technical details about 1Gbps eSFP Optical Modules, including specifications and support information.

Huawei launches CloudMatrix 384 AI System to rival

The Huawei CloudMatrix 384 is a high-density AI computing system featuring 384 Huawei Ascend 910C chips, designed to rival Nvidia''s GB200

How To Read Optical Module Information On Huawei Switches

The following uses the Moduletek SFP-10G-LR module connected to a Huawei S6700 switch as an example to introduce how to read information of the connected optical module on a

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

Huawei CloudMatrix 384 AI Cluster Outperforms Nvidia

Leveraging optical interconnects and scale, Huawei''s new CloudMatrix 384 AI cluster surpasses Nvidia''s GB200 performance but uses

Serving Large Language Models on Huawei CloudMatrix384

It integrates 384 Ascend 910 NPUs and 192 Kunpeng CPUs interconnected via an ultra-high-bandwidth Unified Bus (UB) network, enabling direct all-to-all communication and dynamic

Play with optical interconnection, Huawei Ascend 384 super node ...

The biggest feature of Huawei Ascend 384 supernode is that it relies on Huawei''s powerful optical interconnection capabilities. When the single-chip capability is insufficient, it defeats

Displaying Optical Module Information

Obtain the electronic label of the optical module and contact Huawei technical support personnel to confirm whether it is a Huawei-certified optical module. For details about how to check the electronic

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface

Inside Huawei CloudMatrix 384: 2xThroughput of

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

10 Gbit/s SFP+ Optical Modules

10 Gbit/s SFP+ optical modules apply to 10 GE optical ports. The wavelength can be 850 nm, 1310 nm, or 1550 nm, and the transmission distance ranges from 0.5 km (0.31 mi) to 80 km (49.71 mi).

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

CloudMatrix 384 supernode is the answer given by Huawei Cloud. What Makes CM384 Different? CloudMatrix 384 super-node uses 6912 x 400G

Optical Modules for Huawei S Series Switches

Identification method: For details, see "Import Notes About Using Optical Modules Certified for Huawei Switches" under Hardware Description > Pluggable Modules for Interfaces in product documentation.

Understanding Pluggable Optical Modules

Therefore, when using such optical modules, select optical fibers of an appropriate length to ensure that the actual receive power is smaller than the overload power. If the optical fibers connected to a long

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: https://saastisfy.fr
Email: sales@saastisfy.fr
Phone: +33 6 52 81 47 39
Address: 75 Rue de Rivoli, 75001 Paris, France

This document is for informational purposes only. Specifications subject to change without notice.