Huawei 384 Optical Module Computing Power

Overview

Huawei's CloudMatrix 384 Supernode, powered by 384 Ascend 910C chips, rivals Nvidia's GB200 NVL72 with 300 petaflops of AI compute power. Explore its impact on global AI and China's tech self-sufficiency. 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. 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). Huawei Technologies has introduced the CloudMatrix 384 Supernode, a groundbreaking AI. Huawei recently started delivering its new CloudMatrix 384 AI clusters to Chinese customers – and is making no secret of its goal: technological independence from Western suppliers, particularly NVIDIA.

Article Content

Huawei''s CloudMatrix 384: A Bold AI Architecture

Launched in April 2025, this system leverages 384 Ascend 910C chips to deliver 300 petaflops of dense BF16 compute power—nearly double the 180 petaflops of

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

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

Summary * Huawei''s AI-native 910C and CM384 systems now rival NVIDIA''s Blackwell in real-world performance, despite using older 7nm and

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

It has broken the monopoly of international giants in the field of AI computing power, surpassed the performance of leading foreign competitors, and reshaped the global competition

Huawei Unleashes the Beast: CloudMatrix 384 Takes on Nvidia in AI ...

According to Network World, this ambitious project integrates 384 Ascend 910C AI processors, achieving an astonishing 300 PFLOPs in dense BF16 computing power. This leap in computation

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

With the support of optical interconnection, there is no bottleneck in the communication between cards of Ascend 384. 384 chips are directly integrated into the same logical computing unit,

Huawei CloudMatrix 384: Chinese AI giant with high

According to industry sources, the power consumption of the CM384 is around 3.9 times that of the NVIDIA system. The efficiency in perf/watt is also

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 CloudMatrix 384: China''s AI Powerhouse vs Nvidia

Discover how Huawei''s CloudMatrix 384 AI supercomputer outpaces Nvidia''s GB200 NVL72 with 384 Ascend chips, massive bandwidth, and optical

Huawei CloudMatrix 384 AI Cluster Outperforms Nvidia GB200

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

SemiAnalysis of Huawei CloudMatrix and the 910C

This architecture enables high-performance computing for AI workloads, ensuring efficient data processing and interconnectivity within the

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

The Great AI Compute Showdown: Huawei CloudMatrix 384 vs

Huawei, long perceived as a telecommunications giant and smartphone innovator, has announced the launch of CloudMatrix 384 — a groundbreaking AI supernode that challenges

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

Huawei''s SuperNode CloudMatrix384: Networking

Thanks to its networking advantages, Huawei''s super node significantly outperforms NVL72 in throughput, achieving nearly twice the

Huawei Technologies Pushes AI Computing Limits with

The CloudMatrix 384 combines 384 Huawei Ascend 910C NPUs, much more than Nvidia, remember the Californian connects vis NVLink 36 Grace

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

Due to the extensive use of optical transceivers in both scale-up and scale-out network, this 384-GPU cluster is very power hungry. We estimate that

Huawei''s CloudMatrix 384 Supernode: How This 300

Huawei announced the CloudMatrix 384 Supernode—a 16-rack AI compute cluster achieving 300 petaflops of BF16 performance versus Nvidia''s

Huawei Unveils CloudMatrix 384

Huawei''s system offers higher overall compute, more memory, and much greater bandwidth compared to Nvidia''s GB200 NVL72. But that power comes at a cost: more heat, higher

Huawei showcases CloudMatrix 384 AI system to rival

While Nvidia''s GB200 significantly outperforms Huawei CloudMatrix 384 at the chip level, Huawei gains an advantage at the system level by

Huawei Unleashes the Beast: CloudMatrix 384 Takes on Nvidia in AI ...

Huawei''s CloudMatrix 384 AI system, boasting 384 Ascend AI processors, takes the fight to Nvidia''s flagship with sheer power and a groundbreaking optical network. Promising up to 166% more

Why Huawei''s CloudMatrix 384 Supernode Is a Wake

In this high-stakes race, Huawei has emerged with a groundbreaking new AI solution that challenges the dominance of industry leader Nvidia. Enter

Let''s talk about Huawei''s Atlas 950 supernode.

Most people are familiar with supernodes. Last year, Huawei''s Ascend 384 supernode went viral online, introducing many to the concept. Simply put, a supernode is a supercomputing server with many

Huawei CloudMatrix 384: China''s AI Powerhouse vs Nvidia

Huawei has officially unveiled its CloudMatrix 384 AI computing system at the World Artificial Intelligence Conference (WAIC) in Shanghai, seizing

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

The Huawei CloudMatrix 384 super-node is a key technological breakthrough of Huawei AI computing infrastructure, mainly used to solve the

Optical Modules in Intelligent Computing Scenarios

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

dMatrix 384—a Chine e hyperscale clust r with 300+ PFLOPs of AI power. The West was not ready for this. Huawei''s new AI CloudMatrix cluster beats Nvidia''s GB200 by brute for... Huawei unveils AI

Huawei''s AI CloudMatrix 384 is big, expensive and

Huawei launches CloudMatrix 384 Supernode to rival Nvidia''s NVL72 AI CloudMatrix 384 delivers nearly double the compute power with superior

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