

AI Servers



Article Overview

Huawei's self-operated AI servers, led by the CloudMatrix 384 cluster, deliver high-performance AI computing using Ascend 910C chips and a fully domestic AI infrastructure stack.

CloudMatrix 384 AI Server

Huawei's CloudMatrix 384 is its flagship AI server system, designed to rival Nvidia's GB200 NVL72 while circumventing export restrictions . It integrates 384 Ascend 910C AI chips, compared to Nvidia's 72 GPUs, achieving 300 PetaFLOPS of BF16 compute performance, roughly double that of Nvidia's system . The architecture uses a “supernode” design with high-speed interconnects, enabling the chips to work together efficiently despite individual performance differences . The system also offers superior memory and bandwidth, though it consumes 559 kW per hour, nearly four times Nvidia's power usage .

Self-Operated AI Infrastructure

Huawei's AI servers are part of a vertically integrated ecosystem that includes:

- Ascend AI NPUs for high-performance AI computation .
- Kunpeng ARM-based processors powering servers and AI infrastructure, reducing reliance on x86 CPUs .
- HarmonyOS for AI-native operations, supporting real-time inferencing, intelligent scheduling, and context-aware services .
- Atlas SuperPoD servers and NPU cards for enterprise AI adoption, compatible with...

Article Content

Jul 21, 2026

GPU Accelerated Cloud Server_ECS_HUAWEI CLOUD

GPU-accelerated cloud server (GACS) provides outstanding floating-point computing power that is great for real-time, highly

Jan 26, 2026

China's Z.ai trained a model using only Huawei hardware

Chinese outfit Zhipu AI claims it trained a new model entirely using Huawei hardware, and that it's the first company to

Mar 28, 2026

AI-accelerated ECSs_x86 ECS Specifications_ECS Types and ...

AI-accelerated ECSs, powered by Ascend processors and software stacks, are dedicated to accelerating AI

Aug 09, 2025

Huawei Cloud Announces Pangu Models 5.5 and All-new AI ...

Huawei Cloud has enhanced its intelligent assistant, Pangu Doer, leveraging cutting-edge AI compute, advanced

Mar 19, 2026

OceanStor AI Storage

As large AI models move into the multimodal era, enterprises face challenges in model training and inference, from low training

May 01, 2026

Huawei Launches Open-Access SuperPoD Architecture for All

Yang explained, "Huawei has developed the groundbreaking SuperPoD architecture based on our UnifiedBus

Aug 02, 2025

All Products and Solutions

Directory of Huawei enterprise IT infrastructure products, solutions, and services.

May 15, 2026

Atlas 500 Pro AI Edge Server User Guide (Model 3000) 18

The Atlas 500 Pro (model 3000) is a 2 U AI edge server powered by Huawei Kunpeng 920 processors, featuring superb computing

May 25, 2026

Huawei releases CloudMatrix 384 supernode: a milestone ...

Huawei has built a completely independent and controllable AI computing system through full-stack innovation from

Sep 22, 2025

AI Powers Self-Driving Full-Lifecycle Data Management

Management intelligence → product intelligence: AI powers self-driving full-lifecycle data management. Artificial

Nov 11, 2025

Huawei launches CloudMatrix 384 server as an alternative to Nvidia's

CloudMatrix 384 is powered by 384 of Huawei's most sophisticated AI chips, the Ascend 910C graphics processing

Jul 17, 2026

Huawei and Cambricon lead China's AI server chip surge, piling

Huawei and Cambricon are set to dominate China's AI server market as geopolitics and self-reliance accelerate

Jan 03, 2026

FusionServer Pro V6 Smart Server | Huawei Enterprise

The intelligent server is equipped with the latest AI training and inference modules to unleash up to 560 TFLOPS

Nov 30, 2025

Chinese tech firms from Huawei to Inspur push "all-in

Dozens of Chinese hi-tech manufacturers – from Lenovo Group and Huawei Technologies to

Apr 08, 2026

Paving the Way for All Intelligence

AI servers, especially AI computing clusters, are different from general-purpose x86 servers

Dec 03, 2025

Overview

The Atlas 800 training server (model 9010) is an AI training server running on the Huawei Ascend 910 AI Processor and Intel

May 23, 2026

Huawei turns to Arm-based AI servers to survive US restrictions

Genius or fool's errand? The reason why Huawei is doubling down on the Arm architecture is simple: It has to

Apr 17, 2026

Huawei Cloud

Huawei Cloud opens up Huawei's over 30 years of expertise in ICT and digitalization. We dive into digital and provide Everything as

May 04, 2026

Ascend AI Cloud Service | Huawei Cloud

Ascend AI Cloud Service offers instant access to immense yet cost-effective AI computing power, a reliable platform for training and

Oct 02, 2025

Huawei Launches FusionServer Pro V6 Intelligent Server Based on

Today, the Huawei Computing Product Line officially released the latest member to their family – the next-generation

Aug 26, 2025

Huawei Unveiled the Latest SuperPoD, Making an AI Infrastructure

For AI computing, the Atlas 950 SuperPoD, powered by UnifiedBus, integrates 64 NPUs per cabinet and can scale up

Jan 16, 2026

Huawei Connect 2025: Building AI Infrastructure In A Sanctioned World

For AI enablement, Huawei's open-sourced AI stack with MindSpore, CANN, and openEuler comes together to form

Apr 18, 2026

AI-Self Security

AI Security Layered Defense As illustrated in Figure 3-1, three layers of defense are needed for deploying AI systems in service

Sep 19, 2025

Huawei AI Servers Test Effectiveness of US Curbs

Last month, Huawei unveiled a new AI server cluster in China's Anhui province powered by its in-house Ascend

Aug 14, 2025

Inside Huawei's Atlas 960: How China's SuperPoDs Aim to ...

Huawei has unveiled what it calls the world's most powerful SuperPoDs and SuperClusters, marking a decisive step in China's effort

Mar 06, 2026

Huawei plans to launch AI PCs with self-developed CPUs, reducing

Huawei, which is under U.S. sanctions, plans to equip its upcoming artificial intelligence (AI) PC products to be

May 11, 2026

Huawei launches new AI server solution – Trivium China

What happened: On April 10, Huawei launched its new AI server system, CloudMatrix 384. Huawei claims it

Sep 16, 2025

Huawei regains power in Chinese server sector due to AI chips

Huawei has started reclaiming its growth and influence in Chinese server business due to increasing demands for its

Oct 24, 2025

Huawei's AI servers show tech advancing despite US curbs

TOKYO -- Huawei Technologies is steadily building up its own artificial intelligence infrastructure with homegrown chips and servers,

Jul 16, 2026

Huawei launches CloudMatrix 384 server as an alternative to Nvidia's AI ...

Huawei launches CloudMatrix 384 server as an alternative to Nvidia's AI infrastructure stack - SiliconANGLE

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