

East Asian AI Computing Servers



AI Overview

East Asia is rapidly expanding its AI server and data center infrastructure, with AI-optimized servers projected to grow from USD 28.7 billion in 2025 to USD 142.5 billion by 2031, driven by generative AI and large-scale machine learning workloads.

Market Overview The Asia AI server market is experiencing exponential growth due to the rising adoption of generative AI, large language models, and edge AI applications. AI servers in the region are designed with high-performance GPUs, TPUs, and specialized processors to accelerate deep learning, natural language processing, and computer vision tasks, making them critical for enterprises, research institutions, and government organizations (Mobility Foresights, 2025). The market is projected to grow at a CAGR of 30.8%, reaching USD 142.5 billion by 2031.

Data Center Infrastructure East Asia hosts a dense network of AI-optimized data centers, particularly in hubs like Singapore, Hong Kong, and emerging markets such as Thailand and Malaysia. These facilities are increasingly designed to support high-density AI workloads, including pre-training and inferencing of large AI models, which require immense computing power and low-latency networks (KPMG, 2025). Southeast Asia alone has over 2,000 data centers, with hundreds more under construction, reflecting a regional push to meet AI demand while adhering to sovereign data mandates (Digital in Asia, 2026).

Technological Trends

- High-Performance Accelerators:** AI servers are equipped with GPUs, TPUs, and NPUs to enable massive parallel processing for AI model training and inference.
- Cooling Innovations:** Liquid-cooling retrofits are increasingly preferred over traditional air-cooled systems to manage heat density from generative AI workloads (Mordor Intelligence, 2025).
- Energy Management:** Power consumption is a major challenge; AI data centers often consume as much electricity as 100,000 households. Solutions include renewable energy integration, battery storage, and nuclear energy initiative...

Article Content

China's AI firms are going regional for compute power –

China's AI firms are going regional for compute power – and South-east Asia is cashing in US chip curbs are pushing these innovators to the region,

AI infrastructure boom reshaping freight flows and

Booming AI infrastructure investment is reshaping global freight markets, driving demand for specialist logistics, and new trade flows.

China sinks 2,000 servers beneath the ocean as AI

The project combines offshore wind generation with subsea computing infrastructure to reduce electricity pressures linked to artificial

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South-east Asia emerges as global data centre hot spot

SINGAPORE – The world's largest technology firms are flocking to South-east Asia to build data centres at a time when demand for infrastructure

The Asia Data Centre Landscape

Pre-training and post-training large AI models require intensive computing power, pushing data centre power demand in the region by an estimated 165% by 2030 compared to 2023, as firms invest in

Edge AI Servers Market Report 2026

The edge artificial intelligence (AI) servers market size has grown exponentially in recent years. It will grow from \$3.77 billion in 2025 to \$4.85 billion in 2026 at a compound annual growth rate (CAGR) of

Asia AI Server Market Size and Forecasts 2031

The increasing adoption of generative AI, large language models, and edge AI applications is fueling demand for high-compute capacity servers in Asia. Major technology

Southeast Asia's data centres and AI infrastructure

Artificial intelligence (AI) is fuelling an unprecedented surge in data demand – and Southeast Asia is not yet ready to meet this challenge.

Servers Market Size & Share Insights, Report [2026-2034]

Servers are the foundation of enterprise IT environments, providing computing power and storage for everything, from cloud and AI solutions to

Asia Pacific AI Server Market Size & Industry Forecast

Asia Pacific has emerged as the fastest-growing region in the global AI server market, driven by robust economic digitalization, tech-centric policy frameworks,

AI Edge Computing Market Report 2026

This approach brings AI capabilities directly to the network's edge, enabling real-time data processing, analysis, and decision-making without relying solely on

AI infrastructure boom reshaping freight flows and

The company also pointed to strong demand for “data centre servers and racks” moving from Asia into the US market. The comments suggest the AI

Asia Pacific AI Servers Market: A Deep Dive into Market ...

The Asia Pacific region is emerging as a powerhouse in the AI Servers Market due to surging investments in smart city infrastructure, digital transformation, and AI-powered technologies.

AshwinD24's gists · GitHub

GitHub Gist: star and fork AshwinD24's gists by creating an account on GitHub.

Nvidia-LG Humanoid Robotics Deal: Building the Future of Physical AI ...

The commercial transition of artificial intelligence from digital software to physical machinery has taken a massive leap forward in East Asia. On Monday, June 8, 2026, Nvidia

Microsoft supports cloud infrastructure demand in Asia

Microsoft is expanding its cloud infrastructure across Asia to help organizations scale with secure, AI-ready services. Learn more.

The rise of AI compute is reshaping infrastructure in

We explore how the rise of AI compute is reshaping infrastructure in Southeast Asia and why it actually matters for the region.

Taiwan Leads Global AI Server Shift, Surpassing iPhones in 2025

Taiwan now dominates about 80% of global server shipments and 90%+ of AI servers, but others are expanding. New manufacturing bases in the U.S., Europe, and elsewhere could chip away at

Who is Building AI Data Centres in Southeast Asia in

Southeast Asia hosts 2,000+ data centres with \$30B investment by 2030. Country-by-country analysis of AI data centre buildout across Singapore,

AI Datacenter Liquid Cooling Market | Global Market

AI Datacenter Liquid Cooling Market is segmented by Cooling Technology (Direct-to-chip liquid cooling, Immersion cooling, Rear-door heat

South-east Asia's data centre boom for AI | The Straits

South-east Asia is experiencing a data centre boom driven by demand for artificial intelligence, bringing economic opportunities but also

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Apple Mac processors The x86 processor is the predominant hardware platform for laptops, desktops, and servers globally.

ASEAN Is Now The AI Data Center Belt Of Asia

Southeast Asia data center capacity is on track to triple by 2030 to 5.2 to 6.5 GW. Malaysia, Indonesia and ASEAN reshape Asia AI compute.

Contact Us

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