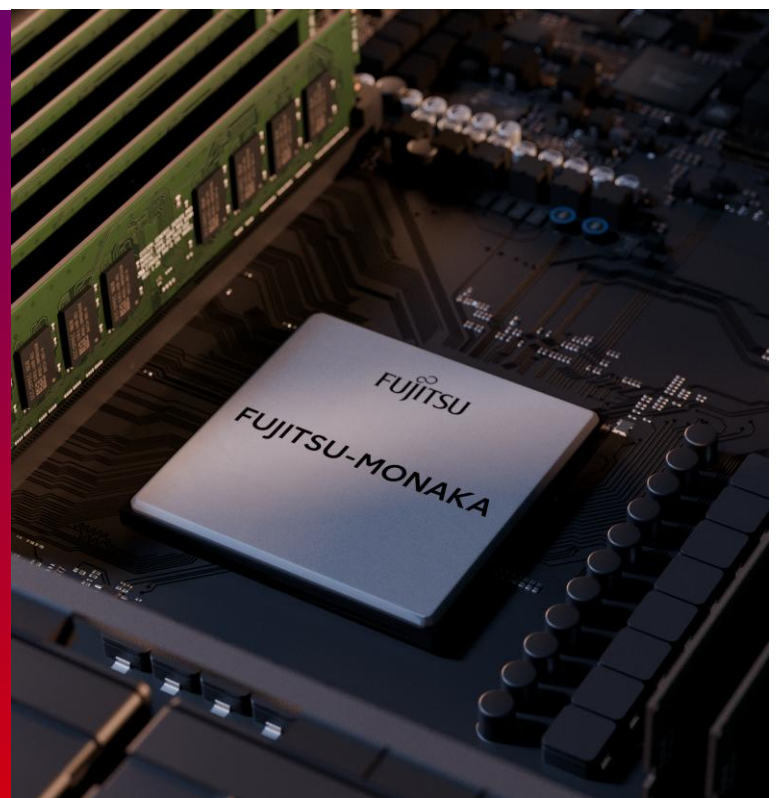




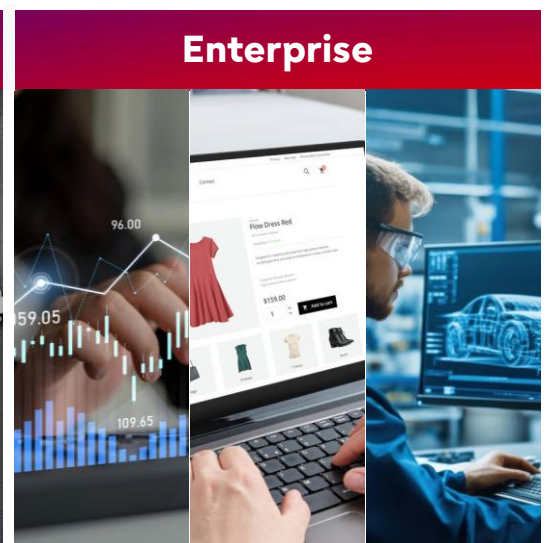
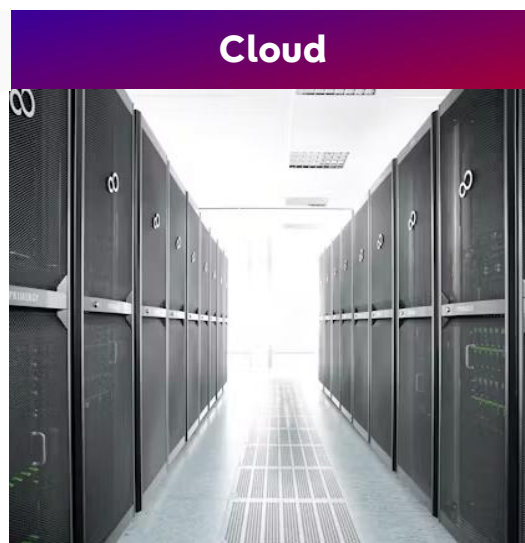
Made-in-Japan CPU Optimized for High Performance and Energy Efficiency for AI **FUJITSU-MONAKA**

Reference Platforms Available Today
General Availability in 2027

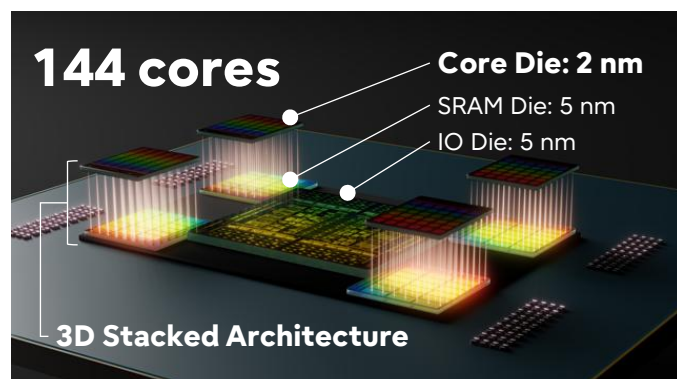


Next-Generation CPU Powering Everything from AI to Enterprise

FUJITSU-MONAKA is a next-generation CPU designed and developed in Japan, featuring a cutting-edge 2nm process and Fujitsu's proprietary technologies. It supports a broad range of workloads, from AI to enterprise, combining high performance with outstanding energy efficiency. FUJITSU-MONAKA contributes to improving performance and optimizing TCO of computing platforms. As a CPU designed and developed in Japan, it also delivers high levels of reliability and security, supporting the deployment of sovereign platforms.



High Performance and Efficiency by Fujitsu's 3D Many-Core Architecture



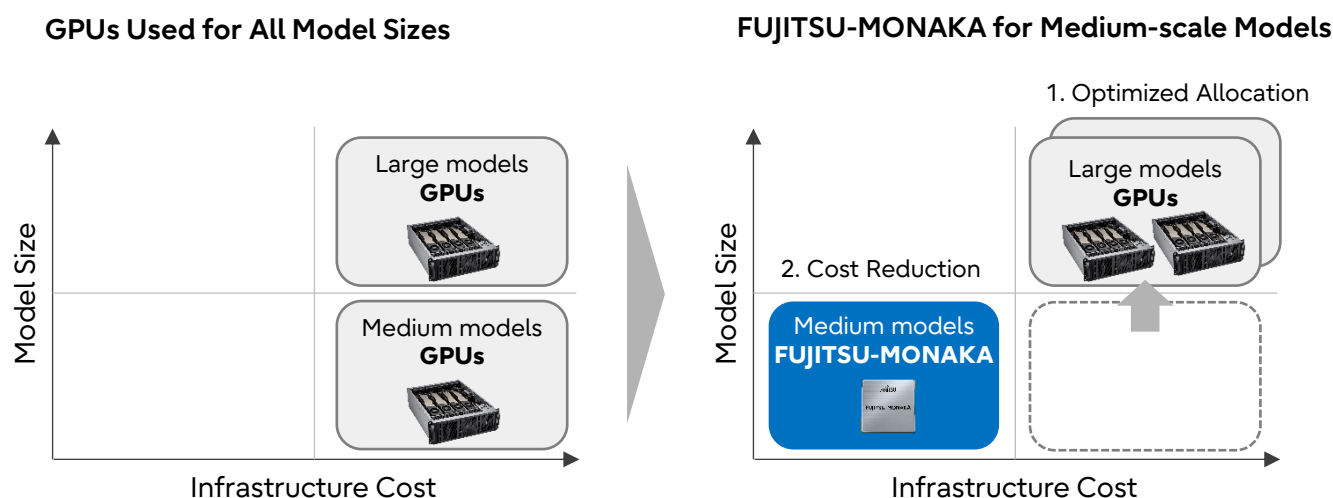
By vertically stacking chiplets that were conventionally arranged side by side, FUJITSU-MONAKA reduces the data transfer distance between chiplets. This architecture delivers low-latency, high-throughput computing with excellent energy efficiency. In addition, its 144-core configuration per CPU and high-capacity memory enable high application performance.

Optimized for High Performance and Energy Efficiency for AI

FUJITSU-MONAKA

CPU-Based AI Inference Platform: Optimizing AI Infrastructure

1. Optimized GPU Allocation: Use GPUs for model training and large-scale inference, where they are truly needed.
2. Reduced Infrastructure Costs: Use FUJITSU-MONAKA for inference workloads such as medium-scale models to reduce hardware and power costs.



Specifications



- Arm v9-A Architecture
- 3D chiplet
 - Core die: 2 nm
 - SRAM die/IO die: 5 nm
- Ultra low voltage for energy-efficiency
- DDR5 12 channels
- Arm SVE2 for AI and HPC
- 144 cores per CPU
Up to 2 CPUs per node
- Confidential Computing for security
- PCI Express 6.0 (CXL 3.0)

Reference Platforms Available Today



Reference platforms are available today for partners interested in evaluating, deploying, and developing FUJITSU-MONAKA-based systems.

Please contact us for further details.

Disclaimer

The information contained in this document is under research and development and is subject to change, including specifications, performance, and design, without prior notice. These results were achieved through a project subsidized by NEDO (New Energy and Industrial Technology Development Organization).

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