

Global ARM Server Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global ARM Server Chip market size is expected to reach \$ 15383 million by 2032, rising at a market growth of 13.3% CAGR during the forecast period (2026-2032).

An ARM server chip is a processor based on the ARM architecture, specifically designed for server environments. These chips offer multi-core, low-power, and high-efficiency computing capabilities to meet the demands of modern data centers, cloud computing, and high-performance computing workloads. ARM server chips are known for their reduced instruction set computing (RISC) capabilities, providing efficient power consumption without compromising performance. The global average selling price for ARM server chips is approximately US\$450 per unit. The average sales volume in the base year is estimated at 13,711k units. The industry average gross margin is approximately 65%, with typical ranges between 55% and 75%, reflecting the high-value, high-margin nature of server-grade semiconductor products. The upstream segment includes semiconductor foundries (such as TSMC), IP licensors (ARM Holdings), and manufacturers of raw materials including silicon wafers, substrates, and packaging materials. The midstream segment comprises chip designers and manufacturers that develop, fabricate, and test ARM-based server processors, including both established semiconductor companies and hyperscalers with custom silicon divisions. The downstream segment encompasses cloud service providers, data center operators, enterprise IT departments, telecommunications companies, and high-performance computing institutions that deploy these chips in servers for cloud computing, edge computing, AI inference, and general-purpose enterprise workloads.

The ARM server chip market is undergoing a structural transformation driven by the fundamental shift in data center computing economics. The industry is witnessing a paradigm transition as cloud service providers and enterprise data centers increasingly

prioritize energy efficiency and total cost of ownership, positioning ARM architecture as a viable alternative to traditional processor architectures. The competitive landscape is evolving rapidly, marked by the emergence of custom silicon development as a mainstream strategy among major computing infrastructure providers, validating the commercial viability of ARM-based server deployments at scale. The software ecosystem has matured significantly, with major operating systems, virtualization platforms, and container orchestration frameworks now offering robust ARM support, effectively removing a key historical barrier to widespread enterprise adoption. The market is experiencing accelerating adoption in artificial intelligence and machine learning workloads, where ARM's power-efficient architecture combined with high-core-count designs provides compelling advantages for inference workloads and certain training scenarios. The trend toward heterogeneous computing, where specialized processors work alongside general-purpose CPUs, is creating new opportunities for ARM server chips optimized for specific workload types. Supply chain dynamics and semiconductor manufacturing advancements continue to influence product development cycles, with process node transitions enabling higher performance and improved power efficiency across successive generations. The geographical distribution of market activity shows significant momentum in regions with dense cloud infrastructure development, while traditional enterprise markets are gradually increasing their adoption rates as legacy application modernization efforts progress. As hyperscale computing environments continue to expand and software optimization for ARM architecture deepens, the market is positioned for sustained evolution, with the architecture increasingly viewed as a mainstream choice rather than an alternative option for server deployments.

This report studies the global ARM Server Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for ARM Server Chip and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of ARM Server Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global ARM Server Chip total production and demand, 2021-2032, (Million Units)

Global ARM Server Chip total production value, 2021-2032, (USD Million)

Global ARM Server Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global ARM Server Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: ARM Server Chip domestic production, consumption, key domestic manufacturers and share

Global ARM Server Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global ARM Server Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global ARM Server Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global ARM Server Chip market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amazon (AWS), Ampere Computing, NVIDIA, Microsoft (Azure), Google, Huawei, Fujitsu, Marvell Technology, Broadcom, Qualcomm, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World ARM Server Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global ARM Server Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global ARM Server Chip Market, Segmentation by Type:

Entry-Level

Mid-Range

High-End

Global ARM Server Chip Market, Segmentation by Core Count:

Single-Core

Dual-Core

Quad-Core

Multi-Core (96?192 Cores)

Global ARM Server Chip Market, Segmentation by Manufacturing Process:

7nm Process

5nm Process

3nm Process

Global ARM Server Chip Market, Segmentation by Application:

Cloud Computing

HPC

Edge Computing

Companies Profiled:

Amazon (AWS)

Ampere Computing

NVIDIA

Microsoft (Azure)

Google

Huawei

Fujitsu

Marvell Technology

Broadcom

Qualcomm

MediaTek

Samsung

Texas Instruments

Apple

Rockchip Electronics

Key Questions Answered:

1. How big is the global ARM Server Chip market?
2. What is the demand of the global ARM Server Chip market?
3. What is the year over year growth of the global ARM Server Chip market?
4. What is the production and production value of the global ARM Server Chip market?
5. Who are the key producers in the global ARM Server Chip market?
6. What are the growth factors driving the market demand?

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