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Global ARM Server Chip Market Growth 2026-2032

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Abstracts

The global ARM Server Chip market size is predicted to grow from US$ 6036 million in 2025 to US$ 15279 million in 2032; it is expected to grow at a CAGR of 14.1% from 2026 to 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

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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.

LP Information, Inc. (LPI) ' newest research report, the “ARM Server Chip Industry Forecast” looks at past sales and reviews total world ARM Server Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected ARM Server Chip sales for 2026 through 2032. With ARM Server Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world ARM Server Chip industry.

This Insight Report provides a comprehensive analysis of the global ARM Server Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on ARM Server Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global ARM Server Chip market.

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This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for ARM Server Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global ARM Server Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of ARM Server Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Entry-Level

Mid-Range

High-End

Segmentation by Core Count:

Single-Core

Dual-Core

Quad-Core

Multi-Core (96–192 Cores)

Segmentation by Manufacturing Process:

7nm Process

5nm Process

3nm Process

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Segmentation by Application:

Cloud Computing

HPC

Edge Computing

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Amazon (AWS)

Ampere Computing

NVIDIA

Microsoft (Azure)

Google

Huawei

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Fujitsu

Marvell Technology

Broadcom

Qualcomm

MediaTek

Samsung

Texas Instruments

Apple

Rockchip Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global ARM Server Chip market?

What factors are driving ARM Server Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do ARM Server Chip market opportunities vary by end market size?

How does ARM Server Chip break out by Type, by Application?

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