

Global CPU Processor Chips and CPU-centric SoCs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CPU Processor Chips and CPU-centric SoCs market size was valued at US\$ 142510 million in 2025 and is forecast to a readjusted size of US\$ 235812 million by 2032 with a CAGR of 7.2% during review period.

CPU processor chips and CPU-centric SoCs are semiconductor devices built around central processing unit cores that provide general-purpose instruction execution, operating system support, application scheduling, host control, and data processing capabilities. This study focuses on server CPUs, PC processors, mobile application processors, embedded MPUs, cloud-designed CPUs, automotive and edge computing control SoCs, and system-on-chip products in which CPU cores serve as the central scheduling and computing engine while integrating GPU, NPU, DSP, ISP, modem, security, I/O and memory-control functions. Competitive performance in this industry is shaped not only by process node, core count, frequency, cache, memory bandwidth and power consumption, but also by instruction-set architecture, software ecosystem, operating-system compatibility, compiler toolchains, packaging, supply-chain control and platform lock-in.

Based on our research, the CPU chip industry has evolved from the traditional ?PC and server processor market? into a multi-layer computing chip market covering cloud data centers, AI servers, AI PCs, smartphones, automotive cockpits, industrial edge computing and intelligent terminals. Traditional x86 CPUs still retain the core value of the server and PC ecosystems, with Intel and AMD forming the main competitive axis in this segment. However, mobile application processors and CPU-centric SoCs have made some vendors an important part of the CPU chip industry. If the market is

measured only by standalone CPU chips, the industry size will be underestimated; if all SoC revenue is included without distinction, the CPU-specific value will be overstated. Therefore, this report adopts a medium-narrow scope, including CPU-centric SoCs while excluding pure MCU, GPU, NPU and IP revenue.

From the demand structure perspective, the core growth drivers of CPU chips in 2025-2026 have shifted from simple PC replacement and smartphone upgrades to the combined pull of AI server host CPUs, cloud-native Arm instances, AI PCs, on-device AI smartphones, intelligent automotive cockpits and industrial edge computing. AI has not weakened the importance of CPUs; instead, it has raised requirements for host CPUs, memory bandwidth, I/O interconnects, virtualization, security isolation and energy-efficient scheduling. CPUs are transforming from general-purpose computing units into system-level orchestration nodes for cloud and AI infrastructure.

From the product roadmap perspective, the long-term coexistence of multiple architectures, including x86, Arm, RISC-V, POWER and LoongArch, will continue. The advantage of x86 lies in its software ecosystem and installed base in servers and PCs; Arm's advantage lies in energy efficiency and vertical customization; and RISC-V's advantage lies in openness and customization potential, although it remains constrained in the short term by software ecosystem maturity and high-performance implementation capability. Chiplets, advanced packaging, CPU-GPU/NPU collaboration, memory bandwidth improvement and security isolation will become the core technology routes for future CPU competition. For Chinese domestic vendors, architecture autonomy, supply-chain controllability and industry customer adaptation are more realistic priorities than short-term performance catch-up.

From the policy environment perspective, major economies including the United States, the European Union, Japan and China have all incorporated semiconductors into their industrial security and supply-chain resilience frameworks. The United States is strengthening domestic manufacturing and advanced packaging through CHIPS-related mechanisms; the European Union aims to increase its global semiconductor share through the European Chips Act; Japan is promoting industrial reconstruction around Rapidus and advanced nodes; and China is supporting domestic CPU and SoC vendors through information technology application innovation, domestic substitution and supply-chain security demand. Policy will not directly change the technical barriers of the CPU market, but it will have a profound impact on customer procurement, supply-chain configuration, regional capacity layout and the pace of domestic substitution.

This report is a detailed and comprehensive analysis for global CPU Processor Chips

and CPU-centric SoCs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global CPU Processor Chips and CPU-centric SoCs market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global CPU Processor Chips and CPU-centric SoCs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global CPU Processor Chips and CPU-centric SoCs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global CPU Processor Chips and CPU-centric SoCs market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for CPU Processor Chips and CPU-centric SoCs

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global CPU Processor Chips and CPU-centric SoCs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key

developments. Key companies covered as a part of this study include Amazon.com, Inc., Apple Inc., Alphabet Inc., Microsoft Corporation, Samsung Electronics Co., Ltd., NVIDIA Corporation, Huawei Technologies Co., Ltd., Alibaba Group Holding Limited, Intel Corporation, Qualcomm Incorporated, etc.

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

Market Segmentation

CPU Processor Chips and CPU-centric SoCs market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Server CPU

PC CPU

Mobile Application Processor

Other Specialized CPU

Market segment by Performance Tier

High-performance CPU

Low-power CPU / SoC

Other

Market segment by Core Configuration

Single-core CPU

Multi-core CPU

Many-core CPU

Other

Market segment by Process Node

Advanced Node CPU

Mainstream Node CPU

Mature Node CPU

Other / Multi-node Platform

Market segment by Application

Data Center and Cloud

Automotive Electronics

Industrial and Edge Computing

Special-purpose Computing

Other

Major players covered

Amazon.com, Inc.

Apple Inc.

Alphabet Inc.

Microsoft Corporation

Samsung Electronics Co., Ltd.

NVIDIA Corporation

Huawei Technologies Co., Ltd.

Alibaba Group Holding Limited

Intel Corporation

Qualcomm Incorporated

Advanced Micro Devices, Inc.

Broadcom Inc.

IBM Corporation

SoftBank Group Corp.

MediaTek Inc.

Texas Instruments Incorporated

STMicroelectronics N.V.

NXP Semiconductors N.V.

Renesas Electronics Corporation

Marvell Technology, Inc.

Microchip Technology Inc.

Fujitsu Limited

Synaptics Incorporated

Hygon Information Technology Co., Ltd.

UNISOC Technologies Co., Ltd.

Phytium Technology Co., Ltd.

Loongson Technology Corporation Limited

Shanghai Zhaoxin Semiconductor Co., Ltd.

Rockchip Electronics Co., Ltd.

Amlogic, Inc.

Allwinner Technology Co., Ltd.

Ingenic Semiconductor Co., Ltd.

ASPEED Technology Inc.

Realtek Semiconductor Corp.

Nuvoton Technology Corporation

Socionext Inc.

SemiDrive Technology Ltd.

Telechips Inc.

SOPHGO Technologies Ltd.

StarFive Technology Co., Ltd.

SpacemiT

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe CPU Processor Chips and CPU-centric SoCs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CPU Processor Chips and CPU-centric SoCs, with price, sales quantity, revenue, and global market share of CPU Processor Chips and CPU-centric SoCs from 2021 to 2026.

Chapter 3, the CPU Processor Chips and CPU-centric SoCs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CPU Processor Chips and CPU-centric SoCs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and CPU Processor Chips and CPU-centric SoCs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of CPU Processor Chips and CPU-centric SoCs.

Chapter 14 and 15, to describe CPU Processor Chips and CPU-centric SoCs sales channel, distributors, customers, research findings and conclusion.

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