

Global Single-Chip Microprocessors Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G71490B6C137EN.html>

Date: June 2026

Pages: 148

Price: US\$ 4,480.00 (Single User License)

ID: G71490B6C137EN

Abstracts

The global Single-Chip Microprocessors market size is expected to reach \$ 121448 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

In 2025, global Single-Chip Microprocessor output reached about 35 billion units and global capacity of around 40 billion units. The average price is about USD 2 per unit, with gross margins near 48%. A Single-Chip Microprocessor is an integrated semiconductor device that incorporates the complete central processing unit (CPU) of a computer or embedded system onto a single silicon chip, including arithmetic logic units (ALU), control units, registers, cache memory, and often integrated graphics, AI accelerators, or communication interfaces. These microprocessors are widely used in personal computers, servers, smartphones, automotive electronics, industrial automation systems, consumer electronics, networking equipment, medical devices, and IoT products due to their compact size, high computing performance, and low power consumption. The supply chain of Single-Chip Microprocessors begins with upstream suppliers of semiconductor-grade silicon wafers, rare gases, photoresists, electronic chemicals, photomasks, and semiconductor manufacturing equipment such as lithography, etching, deposition, and testing systems. Midstream activities involve chip architecture design, IP core licensing, electronic design automation (EDA) software development, wafer fabrication at advanced semiconductor foundries, packaging, assembly, and semiconductor testing performed by IDMs, fabless chip companies, and OSAT providers. Downstream industries include PC and server manufacturers, smartphone OEMs, automotive electronics suppliers, industrial control equipment manufacturers, telecom infrastructure providers, cloud computing companies, and smart device producers that integrate single-chip microprocessors into end-use electronic systems.

This report studies the global Single-Chip Microprocessors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Chip Microprocessors 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 Single-Chip Microprocessors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Chip Microprocessors total production and demand, 2021-2032, (Million Units)

Global Single-Chip Microprocessors total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Single-Chip Microprocessors domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Single-Chip Microprocessors 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 Intel, AMD, NVIDIA, Qualcomm, Apple, Broadcom, Marvell, Texas Instruments, IBM, Microchip Technology, 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 Single-Chip Microprocessors 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 Single-Chip Microprocessors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Chip Microprocessors Market, Segmentation by Type:

Single-Core Microprocessors

Dual-Core Microprocessors

Quad-Core Microprocessors

Hexa-Core Microprocessors

Octa-Core Microprocessors

Many-Core Microprocessors

Global Single-Chip Microprocessors Market, Segmentation by Word Length:

4-bit Microprocessors

8-bit Microprocessors

16-bit Microprocessors

32-bit Microprocessors

64-bit Microprocessors

Global Single-Chip Microprocessors Market, Segmentation by Application:

Telecom & Data Centers

Consumer Electronics

Automotive Electronics

Industrial Automation

Others

Companies Profiled:

Intel

AMD

NVIDIA

Qualcomm

Apple

Broadcom

Marvell

Texas Instruments

IBM

Microchip Technology

NXP Semiconductors

STMicroelectronics

Infineon Technologies

Renesas Electronics

Socionext

Samsung

HiSilicon

UNISOC

MediaTek

Realtek Semiconductor

Key Questions Answered:

1. How big is the global Single-Chip Microprocessors market?
2. What is the demand of the global Single-Chip Microprocessors market?
3. What is the year over year growth of the global Single-Chip Microprocessors market?
4. What is the production and production value of the global Single-Chip Microprocessors market?

5. Who are the key producers in the global Single-Chip Microprocessors market?
6. What are the growth factors driving the market demand?

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