

Global Custom IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Custom IC market size is expected to reach \$ 27401 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

Custom integrated circuits (ICs) are ICs specifically designed and manufactured to meet user needs. Mass-produced and standardized general-purpose ICs typically cannot satisfy all user requirements; the development of new electronic systems often necessitates various ICs with special functions or technical specifications. Custom ICs are one of the important ways to solve this problem and represent a significant aspect of IC development.

Global production of custom integrated circuits is projected to reach 5.83 billion units in 2025, with an average price of \$3.5 per unit. Gross margin is estimated at approximately 40%?65%.

The upstream of custom ICs mainly includes semiconductor materials and foundational technologies such as silicon wafers, compound semiconductor materials, EDA tools, IP cores, and advanced process equipment and know-how, which define design complexity, performance limits, and development cost. Downstream demand is the core value driver and is closely tied to specific application scenarios. In consumer electronics, including smartphones, wearables, and smart home devices, custom ICs are used for power management, sensing, audio, and connectivity, with strong emphasis on low power consumption, high integration, and fast iteration. Automotive electronics represent the fastest-growing downstream segment, covering smart cockpits, ADAS, electric drivetrains, and body control systems, where reliability, functional safety, and long-term supply are critical, resulting in longer product lifecycles and higher unit value. Industrial and energy applications include industrial control, robotics, and automation equipment, focusing on stability, environmental tolerance, and system-level customization. In communications and data centers, custom ICs support network processing, acceleration, and specialized interfaces, prioritizing high bandwidth

and low latency. Medical and security applications are smaller in scale but feature high technical and regulatory barriers, with strong demand for deep customization.

In terms of trends, custom ICs are moving toward highly specialized designs and system-on-chip solutions, optimizing performance and energy efficiency through hardware?software co-design. Key drivers include the inability of general-purpose chips to meet differentiated requirements, competitive pressure on OEMs to build proprietary capabilities, and reduced customization barriers enabled by IP reuse and advanced packaging. Constraints include high upfront R&D investment, long design cycles, and significant non-recurring engineering costs, while advanced process nodes face capacity and geopolitical risks that increase uncertainty.

This report studies the global Custom IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Custom IC 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 Custom IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Custom IC total production and demand, 2021-2032, (Million Units)

Global Custom IC total production value, 2021-2032, (USD Million)

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

Global Custom IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Custom IC domestic production, consumption, key domestic manufacturers and share

Global Custom IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Custom IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Custom IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Custom IC 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 TSMC, Samsung Foundry, Intel, GlobalFoundries, UMC, Tower Semiconductor, SMIC, PSMC, Hua Hong Semiconductor, Vanguard International Semiconductor, 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 Custom IC 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 Custom IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Custom IC Market, Segmentation by Type:

Full Custom IC

Semi-Custom IC

ASIC

Global Custom IC Market, Segmentation by Process:

Mature Process

Advanced Process

Special Process

Global Custom IC Market, Segmentation by Function:

Custom Digital ICs

Custom Analog ICs

Custom Mixed-Signal ICs

Custom RF ICs

Custom Power ICs

Custom Interface ICs

Others

Global Custom IC Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Control & IoT

Medical Electronics

Military & Aerospace

Others

Companies Profiled:

TSMC

Samsung Foundry

Intel

GlobalFoundries

UMC

Tower Semiconductor

SMIC

PSMC

Hua Hong Semiconductor

Vanguard International Semiconductor

DB HiTek

X-FAB

Broadcom

Marvell

MediaTek

Alchip

Global Unichip

Faraday Technology

ASICLAND

IC'Alps

IC Nexus

OpenFive

Aion Silicon

Infineon Technologies

Renesas Electronics

STMicroelectronics

Key Questions Answered:

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

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