

Global Custom IC Market Growth 2026-2032

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Abstracts

The global Custom IC market size is predicted to grow from US\$ 19961 million in 2025 to US\$ 26410 million in 2032; it is expected to grow at a CAGR of 4.0% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Custom IC 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 Custom IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Custom IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Custom IC 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 Custom IC.

This report presents a comprehensive overview, market shares, and growth opportunities of Custom IC market by product type, application, key manufacturers and

key regions and countries.

Segmentation by Type:

Full Custom IC

Semi-Custom IC

ASIC

Segmentation by Process:

Mature Process

Advanced Process

Special Process

Segmentation by Function:

Custom Digital ICs

Custom Analog ICs

Custom Mixed-Signal ICs

Custom RF ICs

Custom Power ICs

Custom Interface ICs

Others

Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Control & IoT

Medical Electronics

Military & Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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.

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 Addressed in this Report

What is the 10-year outlook for the global Custom IC market?

What factors are driving Custom IC market growth, globally and by region?

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

How do Custom IC market opportunities vary by end market size?

How does Custom IC break out by Type, by Application?

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