

Global Sensor Readout IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sensor Readout IC market size is expected to reach \$ 21827 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

Sensor Readout IC (Sensor Readout Integrated Circuit) is a specialized integrated circuit designed to receive, amplify, condition, convert, and process electrical signals generated by sensors. It serves as the interface between sensing elements and digital processing systems, performing functions such as signal amplification, filtering, analog-to-digital conversion (ADC), calibration, compensation, and communication. Sensor Readout ICs are widely used in pressure sensors, tactile sensors, temperature sensors, MEMS sensors, biosensors, optical sensors, and industrial sensing systems to improve signal accuracy, sensitivity, and reliability. In 2025, global Sensor Readout IC production reached approximately 3.14 B units, with an average global market price of around US\$ 3.6 per unit. Annual production capacity is 3.4 B units. Gross Profit Margin: 52%. Sensor Readout IC / Sensor AFE IC sits in the midstream of the sensor signal chain industry. The upstream mainly includes semiconductor foundries (e.g., TSMC, GlobalFoundries), analog/mixed-signal design IP, and key materials such as silicon wafers and packaging substrates. The midstream consists of IC design companies that develop signal conditioning, amplification, ADC conversion, and interface integration functions. The downstream demand comes from automotive electronics, industrial automation, robotics, medical devices, consumer electronics, and IoT systems, where sensor density and accuracy requirements continue to increase. This product category is transitioning from traditional ?supporting IC? to a core enabling layer for intelligent sensing systems. As robotics, automotive ADAS, and humanoid applications scale, sensor readout ICs are becoming more fragmented by use-case, with increasing demand for higher resolution, lower noise, and multi-channel integration. The market is also shifting from discrete AFE solutions toward highly integrated sensor front-end

SoCs, driven by cost reduction and system-level optimization.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Sensor Readout IC production by Integration Level, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

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

This report profiles key players in the global Sensor Readout 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 Texas Instruments Incorporated, Analog Devices, Inc., STMicroelectronics N.V., Infineon Technologies AG, NXP Semiconductors N.V., Renesas Electronics Corporation, Microchip Technology Incorporated, Onsemi, Allegro Microsystems, Inc., Melexis N.V., 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 Sensor Readout 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 Integration Level, 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 Sensor Readout IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sensor Readout IC Market, Segmentation by Integration Level:

Analog Front-End (AFE) IC

AFE + ADC Integrated IC

AFE + ADC + MCU Integrated IC

System-on-Chip (SoC) Readout IC

Global Sensor Readout IC Market, Segmentation by Channel Count:

Single-Channel Readout IC (1 Channel)

Multi-Channel Readout IC (2-16 Channels)

High-Density Readout IC (>16 Channels)

Global Sensor Readout IC Market, Segmentation by ADC Resolution:

Low-Resolution Readout IC (24-bit ADC)

Global Sensor Readout IC Market, Segmentation by Application:

Consumer Electronics

Automotive & Transportation

Industrial

Healthcare & Medical

Aerospace & Defense

Others

Companies Profiled:

Texas Instruments Incorporated

Analog Devices, Inc.

STMicroelectronics N.V.

Infineon Technologies AG

NXP Semiconductors N.V.

Renesas Electronics Corporation

Microchip Technology Incorporated

Onsemi

Allegro MicroSystems, Inc.

Melexis N.V.

Ams-OSRAM AG

Suzhou Memsensing Microsystems Co., Ltd.

ROHM Co., Ltd.

Asahi Kasei Microdevices Corporation

Nisshinbo Micro Devices Inc.

Novosense Microelectronics Co., Ltd.

Chipanalog Microelectronics Co., Ltd.

MagnTek Microelectronics Inc.

ABLIC Inc.

Hangzhou Multidimension Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Sensor Readout IC market?
2. What is the demand of the global Sensor Readout IC market?
3. What is the year over year growth of the global Sensor Readout IC market?
4. What is the production and production value of the global Sensor Readout IC market?

5. Who are the key producers in the global Sensor Readout IC market?
6. What are the growth factors driving the market demand?

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