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Global Current Sensor Interface IC 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 Current Sensor Interface IC market size was valued at US$ 1605 million in 2025 and is forecast to a readjusted size of US$ 2761 million by 2032 with a CAGR of 8.0% during review period.

Current Sensor Interface ICs are dedicated analog and mixed-signal semiconductor devices that connect a current-sensing element with a control, protection, metering, or digital-processing system. The market primarily covers analog current-sense amplifiers, digital current and power monitor ICs, isolated current-sensing amplifiers, isolated delta-sigma modulators, and devices integrating shunt resistors, data converters, alarms, or diagnostic functions. These ICs typically convert the small differential voltage generated across a shunt resistor into an amplified analog voltage, current signal, digital register value, or isolated bitstream. Product performance is determined by input common-mode range, offset voltage and drift, gain accuracy, common-mode rejection, bandwidth, response time, PWM transient rejection, ADC resolution, quiescent current, isolation voltage, and common-mode transient immunity. The research scope focuses on standalone semiconductor products whose primary commercial function is current measurement, signal conditioning, monitoring, protection, or isolated data acquisition. Major functional uses include battery charge and discharge monitoring, motor and phase-current feedback, power-conversion control, power-rail telemetry, overcurrent protection, precision current measurement, and energy or charge metering.

Key Findings

Estimated global production reached approximately 1.64 billion units in 2025

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The estimated blended selling price was approximately US$0.95 per unit in 2025

Non-isolated analog products contributed approximately half of total market revenue

Digital monitoring and isolated interface ICs were the principal value-upgrade segments

The confirmed core supplier base comprises 27 parent-level companies

Market Trends

The Current Sensor Interface IC market is moving from basic signal amplification toward higher-accuracy, more highly integrated and application-specific measurement architectures. Product development is increasingly focused on wider common-mode voltage ranges, lower offset and thermal drift, improved PWM transient rejection, higher bandwidth, bidirectional measurement, lower power consumption, and stronger diagnostic capability. Digital current and power monitors are gaining relevance where system controllers require real-time telemetry, programmable alert thresholds, accumulated charge data, or remote fault analysis. At the same time, isolated amplifiers and isolated delta-sigma modulators are becoming more important in high-voltage motor drives, traction inverters, renewable-energy converters, and energy-storage systems. Automotive qualification and reinforced isolation are becoming increasingly important differentiators rather than optional product variants. Recent official product introductions from STMicroelectronics, ROHM, and Vishay demonstrate continued investment in high-voltage, automotive-grade, high-CMTI, and thermally stable solutions, while major suppliers continue to maintain distinct portfolios for analog amplifiers, digital power monitors, and isolated measurement devices.

Market Dynamics

Drivers

Growth in Current Sensor Interface IC demand is supported by the increasing number of current-measurement points within vehicles, industrial equipment, data-center power systems, and distributed-energy infrastructure. Electric vehicles require current

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feedback across battery-management systems, battery junction boxes, on-board chargers, DC-DC converters, traction inverters, electric compressors, and low-voltage distribution systems. The International Energy Agency reported that global electric-car sales exceeded 20 million units in 2025 and represented approximately one-quarter of total car sales, reinforcing demand for battery monitoring and power-conversion electronics. Industrial automation, robotics, servo drives, renewable-energy inverters, and energy-storage converters add requirements for faster fault response, bidirectional measurement, and galvanic isolation. Data centers and AI computing systems further support demand for digital current, voltage, and power telemetry across server boards, accelerators, power shelves, and rack-level infrastructure.

Restraints

Market expansion is constrained by persistent price pressure in standard non-isolated analog current-sense amplifiers, particularly in high-volume consumer, general power-management, and mature industrial applications. Many basic products use established analog processes and have multiple pin-compatible alternatives, limiting pricing power and increasing the importance of manufacturing scale, yield control, and distribution efficiency. Product demand can also be affected by industrial and automotive inventory corrections, long customer qualification cycles, and fluctuations in capital expenditure for renewable-energy and factory-automation equipment. Alternative architectures create additional pressure: Hall-effect and magnetoresistive current sensors can eliminate external shunt losses in selected high-current applications, while microcontrollers, power-management ICs, gate drivers, smart switches, and power modules increasingly integrate measurement or diagnostic functions. These alternatives do not replace dedicated interface ICs across all applications, but they can reduce standalone device content where moderate accuracy or integrated system functionality is sufficient.

Opportunities

The strongest opportunities are concentrated in applications where accuracy, isolation, diagnostics, and system visibility carry greater value than minimum component cost. Digital power monitors can expand through AI servers, telecom equipment, battery systems, and intelligent power distribution as customers seek real-time current, voltage, power, energy, and fault information. Isolated current-sensing amplifiers and modulators have further potential in electric-vehicle traction systems, industrial drives, photovoltaic inverters, energy-storage converters, charging equipment, and high-voltage power

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supplies. Integrated-shunt devices can gain adoption in space-constrained and factory-calibrated designs by reducing external component count and layout-related measurement error. Regional supply-chain diversification also creates opportunities for qualified local suppliers, particularly in China, as automotive and industrial customers seek alternative sources and shorter technical-support cycles. SEMI notes that automotive and industrial automation continue to depend on mature-node 200 mm capacity for analog, power, sensor, and related devices, supporting continued investment in the manufacturing base used by this product category.

Challenges

The principal challenge is maintaining precision and reliability across increasingly demanding electrical and environmental conditions without making the device commercially uncompetitive. Higher common-mode voltage, fast switching edges from silicon-carbide and gallium-nitride power devices, wide operating temperatures, electromagnetic interference, and functional-safety requirements increase design, validation, packaging, and test complexity. Automotive and industrial customers often require long qualification periods, extensive traceability, stable process control, and supply commitments extending well beyond normal consumer-product cycles. New suppliers must demonstrate not only competitive data-sheet specifications but also production consistency, field reliability, failure-analysis capability, and application support. The fragmented terminology used across current-sense amplifiers, shunt monitors, digital power monitors, isolated amplifiers, battery-monitoring interfaces, and integrated current sensors can also complicate market comparison and customer product selection. Competitive risk is therefore highest for suppliers positioned only in commoditized analog products without differentiated accuracy, isolation, diagnostic, certification, or system-level capabilities.

Industry Chain Analysis

The upstream industry chain comprises analog and mixed-signal semiconductor intellectual property, process technologies, silicon wafers, specialty materials, photomasks, packaging substrates, lead frames, isolation materials, shunt resistors, and semiconductor manufacturing equipment. Current Sensor Interface ICs are generally produced using mature analog, mixed-signal, bipolar-CMOS-DMOS, high-voltage CMOS, or isolation-compatible processes rather than leading-edge digital nodes. Manufacturing may be completed through an IDM model or through external

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wafer foundries and outsourced assembly and test providers. Wafer fabrication, precision trimming, calibration, high-voltage testing, automotive screening, isolation qualification, and final electrical testing are central to yield, consistency, and product cost. Continued investment in 200 mm capacity remains relevant because automotive, industrial, analog, power, MEMS, and sensor products continue to rely heavily on mature-node manufacturing.

The midstream segment consists of semiconductor companies responsible for architecture definition, circuit design, process integration, packaging, qualification, software tools, reference designs, technical support, and global distribution. Value creation is greatest where suppliers combine proprietary analog design, high-voltage or isolation technology, calibration expertise, automotive-grade reliability, and broad application support. Downstream value is realized through integration into battery systems, motor-control platforms, power converters, servers, communication equipment, renewable-energy systems, instrumentation, and protection circuits. Basic analog products compete substantially on cost and supply availability, whereas digital, automotive-grade, high-precision, integrated-shunt, and isolated devices generally command higher selling prices because they reduce system calibration, diagnostics, safety, or design complexity.

Segment Insights

Non-isolated analog current-sense amplifiers remain the largest product segment, contributing approximately half of market revenue and a substantially higher share of unit shipments. Their scale reflects broad use in power supplies, battery-powered devices, motor-control circuits, protection systems, industrial equipment, and automotive subsystems. Competition is relatively intense because many standard devices are based on mature processes and comparable architectures. Suppliers differentiate through common-mode voltage capability, offset and drift, bandwidth, bidirectional operation, packaging, automotive qualification, price, and availability.

Digital current, voltage, and power monitors represent approximately one-quarter of market revenue and offer higher value per device through integrated ADCs, serial interfaces, programmable alerts, and internal power or energy calculation. Isolated amplifiers and isolated delta-sigma modulators account for slightly less than one-fifth of revenue but are expected to gain structural importance because of high-voltage electrification and industrial power conversion. Integrated-shunt and other specialty interfaces remain a mid-single-digit segment, although they provide attractive

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opportunities in compact, calibrated, and highly integrated designs. By functionality, power-conversion feedback, battery monitoring, power-rail telemetry, and motor or phase-current control form the most commercially significant application groups.

Downstream Market Opportunities

The most attractive downstream opportunities are associated with systems that require more measurement channels, higher accuracy, stronger diagnostics, or electrical isolation. Electric vehicles and stationary battery systems create demand for bidirectional charge and discharge measurement, state-of-charge calculation support, battery-junction monitoring, and rapid fault detection. Industrial drives, robotics, and power converters require high-bandwidth feedback and reliable operation under fast common-mode transitions. AI servers and communications infrastructure increase the value of digital rail telemetry and remote power management, while solar inverters, energy-storage converters, charging equipment, and uninterruptible power supplies support isolated measurement demand. Medical equipment, precision instrumentation, and automated test systems remain smaller but higher-specification opportunities where low drift, accuracy, and long-term stability can support premium product positioning.

Regional Insights

Asia-Pacific is assessed as the largest regional market for Current Sensor Interface ICs because it combines extensive electronics manufacturing, the world’s largest electric-vehicle and battery supply chains, high production of power-conversion equipment, and a growing domestic analog semiconductor base. China is particularly important for electric vehicles, batteries, energy storage, solar equipment, consumer electronics, and industrial power systems. The International Energy Agency reported that more than 13 million electric cars were sold in China in 2025, representing approximately six out of every ten electric cars sold worldwide. Japan and Taiwan contribute established automotive, power-management, semiconductor-design, and electronics-manufacturing capabilities. WSTS also reported strong 2025 semiconductor sales growth across Asia-Pacific and China, although this broader indicator includes categories beyond current-sensing products.

North America has the strongest concentration of large, high-value global suppliers and benefits from demand in data centers, industrial automation, automotive electronics, aerospace, and advanced power-management systems. Europe remains important in

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automotive electrification, industrial drives, energy systems, and high-reliability analog components, while Japan maintains strong positions in automotive-grade and optically isolated products. The confirmed supplier database contains nine parent-level companies headquartered in North America and nine in Mainland China, but their scale and portfolio structures differ substantially: North American companies generally have broader global product portfolios, while Chinese suppliers are expanding through localized support, product substitution, and faster development for domestic automotive, industrial, and energy customers.

Competitive Landscape Analysis

The Current Sensor Interface IC market combines a concentrated group of diversified global analog suppliers with a broader group of application-focused and regional competitors. Texas Instruments and Analog Devices form the leading broad-portfolio group through extensive analog, digital, high-precision, and application-support capabilities, while STMicroelectronics, Renesas, onsemi, Microchip Technology, Monolithic Power Systems, ROHM, and Diodes Incorporated maintain strong positions in automotive, industrial, computing, or power-management applications. Broadcom, Skyworks Solutions, Toshiba, and Vishay are differentiated by isolated measurement technologies, where CMTI, thermal stability, isolation lifetime, diagnostics, and qualification are central competitive factors. Infineon, NXP, and ams-OSRAM address more application-specific battery-current acquisition and monitoring architectures. Chinese suppliers including 3PEAK, SG MICRO, NOVOSENSE, Awinic, DIOO, Analogy Semiconductor, Chipanalog, RuiMeng Technology, and Runic Technology are broadening the competitive field through local design support, automotive qualification, high-common-mode products, and isolated signal-chain development. The study confirms 27 parent-level core suppliers after consolidating subsidiaries under their controlling groups. Competition is expected to remain fragmented below the leading broad-line vendors, with sustainable differentiation increasingly determined by precision over temperature, high-voltage performance, digital integration, safety qualification, supply continuity, and system-level engineering support rather than by basic amplification capability alone.

Report Scope

This report is a detailed and comprehensive analysis for global Current Sensor Interface IC market. Both quantitative and qualitative analyses are presented by manufacturers,

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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 Current Sensor Interface IC market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Current Sensor Interface IC 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 Current Sensor Interface IC 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 Current Sensor Interface IC 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 Current Sensor Interface IC

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 Current Sensor Interface IC 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 Texas Instruments Incorporated,

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Analog Devices, Inc., STMicroelectronics N.V., Renesas Electronics Corporation, onsemi, Infineon Technologies AG, Broadcom Inc., NXP Semiconductors N.V., Microchip Technology Incorporated, Monolithic Power Systems, Inc., etc.

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

Current Sensor Interface IC 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 Segmentation

Market segment by Type

Analog Current-Sense Amplifier

Digital Current Monitor IC

Digital Current/Voltage/Power Monitor IC

Isolated Current-Sensing Amplifier

Isolated Delta-Sigma Modulator

Integrated-Shunt Current Monitor IC

Market segment by Isolation Level

Non-Isolated

Isolation

Market segment by Shunt Integration

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External-Shunt Interface IC

Integrated-Shunt Interface IC

Market segment by Current Direction Capability

Unidirectional Current Sensing

Bidirectional Current Sensing

Market segment by Application

Battery Charge and Discharge Monitoring

Power Conversion Current Feedback

Motor and Phase Current Feedback

Power-Rail Monitoring and Telemetry

Other

Major players covered

Texas Instruments Incorporated

Analog Devices, Inc.

STMicroelectronics N.V.

Renesas Electronics Corporation

onsemi

Infineon Technologies AG

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Broadcom Inc.

NXP Semiconductors N.V.

Microchip Technology Incorporated

Monolithic Power Systems, Inc.

ROHM Co., Ltd.

Diodes Incorporated

Skyworks Solutions, Inc.

Toshiba Corporation

MediaTek Inc.

Vishay Intertechnology, Inc.

ams-OSRAM AG

Silergy Corp.

3PEAK INCORPORATED

SG MICRO CORP

Shanghai Awinic Technology Co., Ltd.

NOVOSENSE Microelectronics Co., Ltd.

DIOO MICROCIRCUITS CO., LTD.

Shanghai Analogy Semiconductor Technology Co., Ltd.

Shanghai Chipanalog Microelectronics Co., Ltd.

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Hangzhou RuiMeng Technology Co., Ltd.

Jiangsu Runic Technology Co., Ltd.

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)

Chapter Outline

Chapter 1, to describe Current Sensor Interface IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Current Sensor Interface IC, with price, sales quantity, revenue, and global market share of Current Sensor Interface IC from 2021 to 2026.

Chapter 3, the Current Sensor Interface IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Current Sensor Interface IC 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.

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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 Current Sensor Interface IC 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 Current Sensor Interface IC.

Chapter 14 and 15, to describe Current Sensor Interface IC sales channel, distributors, customers, research findings and conclusion.

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