

Global Chip-Level Current Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chip-Level Current Sensor market size is expected to reach \$ 119 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

In 2025, global chip-level current sensor production reached approximately 21692 k units, the average price is 2.5 usd/unit. Chip-level current sensors are current sensing devices that integrate Hall elements or magnetoresistive sensing units, signal conditioning and amplification circuits, offset correction and temperature compensation modules in a single semiconductor chip or miniature SOP/DFN package. They can directly pass the current to be measured through a conductor or PCB copper foil and use the magnetic field induction principle to measure the current value non-contactly and provide feedback with analog voltage, proportional output or digital signal. They do not require bulky magnetic cores and external operational amplifier circuits. They are solid-state miniaturized non-invasive current sensors and are commonly used in photovoltaic inverters, automotive BMS, motor drives, server power supplies and industrial frequency converters to achieve high-precision isolated current detection and overcurrent protection.

Market Concentration and Major Players:

Internationally, the chip-level current sensor market is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include NOVOSENSE and Melexis. Domestically, the chip-level current sensor market still has significant room for development.

Manufacturing Process and Market Trends:

Chip-level current sensors are first formed on the surface of a silicon wafer using CMOS or BiCMOS photolithography to create Hall elements or magnetoresistive sensing units. These are then integrated with pre-amplifier, temperature compensation, and digital interface circuitry. After wafer testing, the wafer is diced and bonded or flip-chip-mounted to a lead frame, then injection molded into SOP DFN or QFN packages. After isolation, withstand voltage, and high/low temperature aging screening, the sensor is shipped.

As the market demand for high-precision isolated current detection increases with the 800V platform photovoltaic energy storage for new energy vehicles and industrial servo systems, products continue to evolve towards replacing coreless miniaturized high-frequency wideband ASIL-D automotive-grade certification with TMR GMR high-sensitivity magnetic materials and integrating I2C SPI SENT digital interface self-diagnostic functions. Furthermore, they are developing towards co-packaging with power module SiC GaN drivers and intelligent online calibration throughout the entire life cycle.

This report studies the global Chip-Level Current Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Chip-Level Current Sensor total production and demand, 2021-2032, (K Units)

Global Chip-Level Current Sensor total production value, 2021-2032, (USD Million)

Global Chip-Level Current Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Chip-Level Current Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Chip-Level Current Sensor domestic production, consumption, key domestic manufacturers and share

Global Chip-Level Current Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Chip-Level Current Sensor production by Electric, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Chip-Level Current Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Chip-Level Current Sensor 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 Melexis, Allegro, Infineon, TDK-Micronas, ACEINNA, MPS, Texas Instruments, Analog Devices, STMicroelectronics, Renesas, 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 Chip-Level Current Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Electric, 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 Chip-Level Current Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chip-Level Current Sensor Market, Segmentation by Electric:

50A

100A

150A

Other

Global Chip-Level Current Sensor Market, Segmentation by Voltage:

1.8 V

2.5 V

5 V

Others

Global Chip-Level Current Sensor Market, Segmentation by Isolation:

Isolation

Non-isolation

Global Chip-Level Current Sensor Market, Segmentation by Application:

PV Inverter

Automobile Industry

Industrial Inverter

UAV

Service Robot

Other

Companies Profiled:

Melexis

Allegro

Infineon

TDK-Micronas

ACEINNA

MPS

Texas Instruments

Analog Devices

STMicroelectronics

Renesas

Onsemi

ROHM

Sinomags

Suzhou Novosense Microelectronics

Key Questions Answered:

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

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