

Global Smart Electricity Meter Chip Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4644E0F4D3DEN.html>

Date: June 2026

Pages: 96

Price: US\$ 4,480.00 (Single User License)

ID: G4644E0F4D3DEN

Abstracts

The global Smart Electricity Meter Chip market size is expected to reach \$ 1125 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

A smart electricity meter chip is a highly integrated semiconductor device embedded within smart meters to perform energy measurement, data processing, communication, and control functions. It typically combines metrology analog front-end (AFE), microcontroller (MCU), memory, and communication interfaces (e.g., RF, PLC, NB-IoT). These chips enable accurate real-time monitoring of electricity consumption, two-way communication with utilities, and advanced functionalities such as demand response, remote meter reading, and energy analytics. As a core component of advanced metering infrastructure (AMI), the chip plays a critical role in enabling digital, automated, and intelligent power distribution systems.

Global production capacity is approximately 800 million units.

In 2025, global sales reached approximately 730 million units, with an average price of around US\$ 1.05 per unit, gross margin around 41%.

The smart electricity meter chip market presents strong long-term growth potential, supported by continuous smart grid deployment and digital transformation of the energy sector. With global smart meter installations expanding rapidly and market size projected to grow steadily over the next decade, demand for high-performance metering chips will increase accordingly. Technological innovation, including AI integration and advanced communication capabilities, will be key competitive factors. While challenges such as cybersecurity, cost pressures, and standard fragmentation remain, the overall outlook is positive. The market will continue to benefit from policy support, infrastructure

upgrades, and the global shift toward sustainable and intelligent energy systems.

Market Trend

The smart electricity meter chip market is evolving toward higher integration, connectivity, and intelligence. Vendors are increasingly developing system-on-chip (SoC) solutions that integrate metrology, MCU, and communication modules into a single chip, reducing cost and power consumption. The rise of IoT-enabled smart meters, NB-IoT and cellular connectivity, and cloud-based data analytics is accelerating digital grid transformation. In addition, growing adoption of prepaid and hybrid meters, along with AI-driven energy management, is reshaping product design. The integration of renewable energy systems and distributed energy resources further drives demand for advanced, high-performance metering chips.

Market Drive

The primary drivers of the smart electricity meter chip market include global grid modernization initiatives and increasing demand for energy efficiency. Governments and utilities are replacing traditional meters with smart systems to reduce transmission losses, enhance billing accuracy, and improve grid reliability. Regulatory mandates and large-scale deployment programs ensure sustained demand. Additionally, rising electricity consumption, urbanization, and smart city development are boosting adoption. The integration of renewable energy sources and the need for real-time consumption monitoring further strengthen demand. Growing awareness of energy conservation and digitalization of utilities are also key factors accelerating market expansion worldwide.

Upstream and Downstream

Upstream of the smart electricity meter chip industry includes semiconductor foundries, analog IC suppliers, MCU providers, and raw material vendors (e.g., silicon wafers, packaging materials). Key players typically involve fabless chip companies and IDMs supplying metering ICs and communication chips. The midstream consists of smart meter manufacturers integrating chips into metering systems and AMI solutions. Downstream includes utilities, grid operators, and end users across residential, commercial, and industrial sectors. Increasing smart grid deployment and digital energy management systems are strengthening the linkage between chip suppliers and utilities, forming a tightly integrated value chain focused on efficiency, data, and automation.

This report studies the global Smart Electricity Meter Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smart Electricity Meter Chip 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 Smart Electricity Meter Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smart Electricity Meter Chip total production and demand, 2021-2032, (K Units)

Global Smart Electricity Meter Chip total production value, 2021-2032, (USD Million)

Global Smart Electricity Meter Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Smart Electricity Meter Chip consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Smart Electricity Meter Chip domestic production, consumption, key domestic manufacturers and share

Global Smart Electricity Meter Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Smart Electricity Meter Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Smart Electricity Meter Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Smart Electricity Meter Chip 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 STMicroelectronics, Analog Devices, Texas Instruments, Renesas Electronics, NXP Semiconductors, Microchip Technology, CHIPSEA, Shanghai Belling Corp, Hi-trend Technology (Shanghai), Shanghai Fudan Microelect, 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 Smart Electricity Meter Chip 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 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 Smart Electricity Meter Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Electricity Meter Chip Market, Segmentation by Type:

Single Phase

Three Phase

Global Smart Electricity Meter Chip Market, Segmentation by Classification:

Basic Smart Electricity Meter

Advanced Smart Electricity Meter

Global Smart Electricity Meter Chip Market, Segmentation by Chip Type:

MCU

Metering Chip

Communication Chip

Global Smart Electricity Meter Chip Market, Segmentation by Application:

Industrial

Residential

Commercial

Companies Profiled:

STMicroelectronics

Analog Devices

Texas Instruments

Renesas Electronics

NXP Semiconductors

Microchip Technology

CHIPSEA

Shanghai Belling Corp

Hi-trend Technology (Shanghai)

Shanghai Fudan Microelect

Key Questions Answered:

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

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