

# Global Smart Electricity Meter Chip 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 Smart Electricity Meter Chip market size was valued at US\$ 788 million in 2025 and is forecast to a readjusted size of US\$ 1125 million by 2032 with a CAGR of 5.1% during review period.

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 is a detailed and comprehensive analysis for global Smart Electricity Meter Chip market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Smart Electricity Meter Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Electricity Meter Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Electricity Meter Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Electricity Meter Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Smart Electricity Meter Chip

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 Smart Electricity Meter Chip 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 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.

## Market Segmentation

Smart Electricity Meter Chip 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 segment by Type

Single Phase

Three Phase

### Market segment by Classification

Basic Smart Electricity Meter

Advanced Smart Electricity Meter

### Market segment by Chip Type

MCU

Metering Chip

Communication Chip

## Market segment by Application

Industrial

Residential

Commercial

## Major players covered

STMicroelectronics

Analog Devices

Texas Instruments

Renesas Electronics

NXP Semiconductors

Microchip Technology

CHIPSEA

Shanghai Belling Corp

Hi-trend Technology (Shanghai)

Shanghai Fudan Microelect

## 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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Smart Electricity Meter Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Smart Electricity Meter Chip, with price, sales quantity, revenue, and global market share of Smart Electricity Meter Chip from 2021 to 2026.

Chapter 3, the Smart Electricity Meter Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smart Electricity Meter Chip 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.

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 Smart Electricity Meter Chip 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 Smart Electricity Meter Chip.

Chapter 14 and 15, to describe Smart Electricity Meter Chip sales channel, distributors,

customers, research findings and conclusion.

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