

Global Smart 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 Meter Chip market size was valued at US\$ 985 million in 2025 and is forecast to a readjusted size of US\$ 1450 million by 2032 with a CAGR of 5.7% during review period.

A Smart Meter Chip is a semiconductor device used in smart meters for electricity, water, and gas measurement. It integrates key functions such as data acquisition, measurement calculation, data processing, communication control, and security management. Typically implemented as a microcontroller (MCU), metering IC, or system-on-chip (SoC), it serves as the core component enabling accurate metering, connectivity, and intelligent operation of smart meters.

Global production capacity is approximately 1 billion units.

In 2025, global sales reached approximately 855 million units, with an average price of around US\$ 1.12 per unit, gross margin around 38%.

The Smart Meter Chip market is characterized by strong policy support, stable demand, and ongoing technological advancement. Global leaders such as TI, NXP, and STMicroelectronics dominate high-end segments, while Chinese vendors are rapidly expanding in domestic and cost-sensitive markets. The transition toward integrated SoC solutions and advanced communication technologies is reshaping the competitive landscape. Despite challenges such as price pressure and standard fragmentation, long-term growth remains solid due to continued smart grid investments and digital transformation of utilities. Overall, the market presents a balanced combination of maturity in developed regions and high-growth opportunities in emerging economies.

Market Trend

The Smart Meter Chip market is evolving toward higher integration, lower power consumption, and enhanced connectivity. Vendors are increasingly shifting from discrete MCU and metering IC architectures to highly integrated SoC solutions that combine measurement, processing, communication, and security functions. The adoption of NB-IoT, RF, and PLC technologies is accelerating, driven by smart grid and smart city initiatives. In addition, demand for cybersecurity and anti-tampering features is rising. China is leading large-scale deployment, while Europe and North America focus on upgrades and replacement cycles. Overall, the market is transitioning toward intelligent, connected, and software-defined metering platforms.

Market Drive

The primary drivers of the Smart Meter Chip market include global smart grid deployment, regulatory mandates for energy efficiency, and the need for accurate billing and resource management. Governments are promoting digital metering to reduce energy loss and improve grid reliability. The rapid expansion of IoT infrastructure and communication technologies such as NB-IoT and LoRa further supports adoption. In addition, utilities are seeking real-time data for demand-side management and predictive maintenance. In emerging markets, urbanization and infrastructure development are boosting installation volumes, while in developed regions, replacement of legacy meters continues to sustain demand for advanced chip solutions.

Upstream & Downstream

Upstream of the Smart Meter Chip market consists primarily of semiconductor material suppliers, wafer foundries, IP providers, and EDA tool vendors, which support chip design and manufacturing. Key players include silicon wafer producers and global foundries. Midstream includes chip designers such as MCU and metering IC manufacturers. Downstream comprises smart meter manufacturers, system integrators, and utility companies. These include electricity, water, and gas utilities deploying smart metering systems. The downstream demand is highly driven by government policies, grid modernization projects, and smart city programs, forming a tightly integrated value chain from chip production to end-use deployment.

This report is a detailed and comprehensive analysis for global Smart 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 Meter Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart 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 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 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 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 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 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

Smart Electricity Meter

Smart Water Meter

Smart Gas Meter

Market segment by Functionality

Basic Smart Meter

Advanced Smart 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 Meter Chip product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Smart 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 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 Meter Chip.

Chapter 14 and 15, to describe Smart Meter Chip sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Smart Meter Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Smart Electricity Meter

1.3.3 Smart Water Meter

1.3.4 Smart Gas Meter

1.4 Market Analysis by Functionality

1.4.1 Overview: Global Smart Meter Chip Consumption Value by Functionality: 2021 Versus 2025 Versus 2032

1.4.2 Basic Smart Meter

1.4.3 Advanced Smart Meter

1.5 Market Analysis by Chip Type

1.5.1 Overview: Global Smart Meter Chip Consumption Value by Chip Type: 2021 Versus 2025 Versus 2032

1.5.2 MCU

1.5.3 Metering Chip

1.5.4 Communication Chip

1.6 Market Analysis by Application

1.6.1 Overview: Global Smart Meter Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Industrial

1.6.3 Residential

1.6.4 Commercial

1.7 Global Smart Meter Chip Market Size & Forecast

1.7.1 Global Smart Meter Chip Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Smart Meter Chip Sales Quantity (2021-2032)

1.7.3 Global Smart Meter Chip Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 STMicroelectronics

2.1.1 STMicroelectronics Details

2.1.2 STMicroelectronics Major Business

- 2.1.3 STMicroelectronics Smart Meter Chip Product and Services
- 2.1.4 STMicroelectronics Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 STMicroelectronics Recent Developments/Updates
- 2.2 Analog Devices
 - 2.2.1 Analog Devices Details
 - 2.2.2 Analog Devices Major Business
 - 2.2.3 Analog Devices Smart Meter Chip Product and Services
 - 2.2.4 Analog Devices Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Analog Devices Recent Developments/Updates
- 2.3 Texas Instruments
 - 2.3.1 Texas Instruments Details
 - 2.3.2 Texas Instruments Major Business
 - 2.3.3 Texas Instruments Smart Meter Chip Product and Services
 - 2.3.4 Texas Instruments Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Texas Instruments Recent Developments/Updates
- 2.4 Renesas Electronics
 - 2.4.1 Renesas Electronics Details
 - 2.4.2 Renesas Electronics Major Business
 - 2.4.3 Renesas Electronics Smart Meter Chip Product and Services
 - 2.4.4 Renesas Electronics Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Renesas Electronics Recent Developments/Updates
- 2.5 NXP Semiconductors
 - 2.5.1 NXP Semiconductors Details
 - 2.5.2 NXP Semiconductors Major Business
 - 2.5.3 NXP Semiconductors Smart Meter Chip Product and Services
 - 2.5.4 NXP Semiconductors Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 NXP Semiconductors Recent Developments/Updates
- 2.6 Microchip Technology
 - 2.6.1 Microchip Technology Details
 - 2.6.2 Microchip Technology Major Business
 - 2.6.3 Microchip Technology Smart Meter Chip Product and Services
 - 2.6.4 Microchip Technology Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Microchip Technology Recent Developments/Updates

2.7 CHIPSEA

2.7.1 CHIPSEA Details

2.7.2 CHIPSEA Major Business

2.7.3 CHIPSEA Smart Meter Chip Product and Services

2.7.4 CHIPSEA Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 CHIPSEA Recent Developments/Updates

2.8 Shanghai Belling Corp

2.8.1 Shanghai Belling Corp Details

2.8.2 Shanghai Belling Corp Major Business

2.8.3 Shanghai Belling Corp Smart Meter Chip Product and Services

2.8.4 Shanghai Belling Corp Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Shanghai Belling Corp Recent Developments/Updates

2.9 Hi-trend Technology (Shanghai)

2.9.1 Hi-trend Technology (Shanghai) Details

2.9.2 Hi-trend Technology (Shanghai) Major Business

2.9.3 Hi-trend Technology (Shanghai) Smart Meter Chip Product and Services

2.9.4 Hi-trend Technology (Shanghai) Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Hi-trend Technology (Shanghai) Recent Developments/Updates

2.10 Shanghai Fudan Microelect

2.10.1 Shanghai Fudan Microelect Details

2.10.2 Shanghai Fudan Microelect Major Business

2.10.3 Shanghai Fudan Microelect Smart Meter Chip Product and Services

2.10.4 Shanghai Fudan Microelect Smart Meter Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Shanghai Fudan Microelect Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SMART METER CHIP BY MANUFACTURER

3.1 Global Smart Meter Chip Sales Quantity by Manufacturer (2021-2026)

3.2 Global Smart Meter Chip Revenue by Manufacturer (2021-2026)

3.3 Global Smart Meter Chip Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Smart Meter Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Smart Meter Chip Manufacturer Market Share in 2025

3.4.3 Top 6 Smart Meter Chip Manufacturer Market Share in 2025

- 3.5 Smart Meter Chip Market: Overall Company Footprint Analysis
 - 3.5.1 Smart Meter Chip Market: Region Footprint
 - 3.5.2 Smart Meter Chip Market: Company Product Type Footprint
 - 3.5.3 Smart Meter Chip Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Smart Meter Chip Market Size by Region
 - 4.1.1 Global Smart Meter Chip Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Smart Meter Chip Consumption Value by Region (2021-2032)
 - 4.1.3 Global Smart Meter Chip Average Price by Region (2021-2032)
- 4.2 North America Smart Meter Chip Consumption Value (2021-2032)
- 4.3 Europe Smart Meter Chip Consumption Value (2021-2032)
- 4.4 Asia-Pacific Smart Meter Chip Consumption Value (2021-2032)
- 4.5 South America Smart Meter Chip Consumption Value (2021-2032)
- 4.6 Middle East & Africa Smart Meter Chip Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Smart Meter Chip Sales Quantity by Type (2021-2032)
- 5.2 Global Smart Meter Chip Consumption Value by Type (2021-2032)
- 5.3 Global Smart Meter Chip Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Smart Meter Chip Sales Quantity by Application (2021-2032)
- 6.2 Global Smart Meter Chip Consumption Value by Application (2021-2032)
- 6.3 Global Smart Meter Chip Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Smart Meter Chip Sales Quantity by Type (2021-2032)
- 7.2 North America Smart Meter Chip Sales Quantity by Application (2021-2032)
- 7.3 North America Smart Meter Chip Market Size by Country
 - 7.3.1 North America Smart Meter Chip Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Smart Meter Chip Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Smart Meter Chip Sales Quantity by Type (2021-2032)

8.2 Europe Smart Meter Chip Sales Quantity by Application (2021-2032)

8.3 Europe Smart Meter Chip Market Size by Country

8.3.1 Europe Smart Meter Chip Sales Quantity by Country (2021-2032)

8.3.2 Europe Smart Meter Chip Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Smart Meter Chip Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Smart Meter Chip Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Smart Meter Chip Market Size by Region

9.3.1 Asia-Pacific Smart Meter Chip Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Smart Meter Chip Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Smart Meter Chip Sales Quantity by Type (2021-2032)

10.2 South America Smart Meter Chip Sales Quantity by Application (2021-2032)

10.3 South America Smart Meter Chip Market Size by Country

10.3.1 South America Smart Meter Chip Sales Quantity by Country (2021-2032)

10.3.2 South America Smart Meter Chip Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Smart Meter Chip Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Smart Meter Chip Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Smart Meter Chip Market Size by Country
 - 11.3.1 Middle East & Africa Smart Meter Chip Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Smart Meter Chip Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Smart Meter Chip Market Drivers
- 12.2 Smart Meter Chip Market Restraints
- 12.3 Smart Meter Chip Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Smart Meter Chip and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Smart Meter Chip
- 13.3 Smart Meter Chip Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Smart Meter Chip Typical Distributors

14.3 Smart Meter Chip Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Smart Meter Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Smart Meter Chip Consumption Value by Functionality, (USD Million), 2021 & 2025 & 2032

Table 3. Global Smart Meter Chip Consumption Value by Chip Type, (USD Million), 2021 & 2025 & 2032

Table 4. Global Smart Meter Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 6. STMicroelectronics Major Business

Table 7. STMicroelectronics Smart Meter Chip Product and Services

Table 8. STMicroelectronics Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. STMicroelectronics Recent Developments/Updates

Table 10. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 11. Analog Devices Major Business

Table 12. Analog Devices Smart Meter Chip Product and Services

Table 13. Analog Devices Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Analog Devices Recent Developments/Updates

Table 15. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 16. Texas Instruments Major Business

Table 17. Texas Instruments Smart Meter Chip Product and Services

Table 18. Texas Instruments Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Texas Instruments Recent Developments/Updates

Table 20. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 21. Renesas Electronics Major Business

Table 22. Renesas Electronics Smart Meter Chip Product and Services

Table 23. Renesas Electronics Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Renesas Electronics Recent Developments/Updates

Table 25. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 26. NXP Semiconductors Major Business

- Table 27. NXP Semiconductors Smart Meter Chip Product and Services
- Table 28. NXP Semiconductors Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. NXP Semiconductors Recent Developments/Updates
- Table 30. Microchip Technology Basic Information, Manufacturing Base and Competitors
- Table 31. Microchip Technology Major Business
- Table 32. Microchip Technology Smart Meter Chip Product and Services
- Table 33. Microchip Technology Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Microchip Technology Recent Developments/Updates
- Table 35. CHIPSEA Basic Information, Manufacturing Base and Competitors
- Table 36. CHIPSEA Major Business
- Table 37. CHIPSEA Smart Meter Chip Product and Services
- Table 38. CHIPSEA Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. CHIPSEA Recent Developments/Updates
- Table 40. Shanghai Belling Corp Basic Information, Manufacturing Base and Competitors
- Table 41. Shanghai Belling Corp Major Business
- Table 42. Shanghai Belling Corp Smart Meter Chip Product and Services
- Table 43. Shanghai Belling Corp Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Shanghai Belling Corp Recent Developments/Updates
- Table 45. Hi-trend Technology (Shanghai) Basic Information, Manufacturing Base and Competitors
- Table 46. Hi-trend Technology (Shanghai) Major Business
- Table 47. Hi-trend Technology (Shanghai) Smart Meter Chip Product and Services
- Table 48. Hi-trend Technology (Shanghai) Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. Hi-trend Technology (Shanghai) Recent Developments/Updates
- Table 50. Shanghai Fudan Microelect Basic Information, Manufacturing Base and Competitors
- Table 51. Shanghai Fudan Microelect Major Business
- Table 52. Shanghai Fudan Microelect Smart Meter Chip Product and Services
- Table 53. Shanghai Fudan Microelect Smart Meter Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Shanghai Fudan Microelect Recent Developments/Updates

Table 55. Global Smart Meter Chip Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 56. Global Smart Meter Chip Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global Smart Meter Chip Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 58. Market Position of Manufacturers in Smart Meter Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and Smart Meter Chip Production Site of Key Manufacturer

Table 60. Smart Meter Chip Market: Company Product Type Footprint

Table 61. Smart Meter Chip Market: Company Product Application Footprint

Table 62. Smart Meter Chip New Market Entrants and Barriers to Market Entry

Table 63. Smart Meter Chip Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global Smart Meter Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global Smart Meter Chip Sales Quantity by Region (2021-2026) & (K Units)

Table 66. Global Smart Meter Chip Sales Quantity by Region (2027-2032) & (K Units)

Table 67. Global Smart Meter Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global Smart Meter Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global Smart Meter Chip Average Price by Region (2021-2026) & (US\$/Unit)

Table 70. Global Smart Meter Chip Average Price by Region (2027-2032) & (US\$/Unit)

Table 71. Global Smart Meter Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 72. Global Smart Meter Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 73. Global Smart Meter Chip Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global Smart Meter Chip Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global Smart Meter Chip Average Price by Type (2021-2026) & (US\$/Unit)

Table 76. Global Smart Meter Chip Average Price by Type (2027-2032) & (US\$/Unit)

Table 77. Global Smart Meter Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 78. Global Smart Meter Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 79. Global Smart Meter Chip Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global Smart Meter Chip Consumption Value by Application (2027-2032) &

(USD Million)

Table 81. Global Smart Meter Chip Average Price by Application (2021-2026) & (US\$/Unit)

Table 82. Global Smart Meter Chip Average Price by Application (2027-2032) & (US\$/Unit)

Table 83. North America Smart Meter Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 84. North America Smart Meter Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 85. North America Smart Meter Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 86. North America Smart Meter Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 87. North America Smart Meter Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 88. North America Smart Meter Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 89. North America Smart Meter Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America Smart Meter Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe Smart Meter Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Europe Smart Meter Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 93. Europe Smart Meter Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 94. Europe Smart Meter Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 95. Europe Smart Meter Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 96. Europe Smart Meter Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 97. Europe Smart Meter Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe Smart Meter Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific Smart Meter Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 100. Asia-Pacific Smart Meter Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 101. Asia-Pacific Smart Meter Chip Sales Quantity by Application (2021-2026) & (K Units)

- Table 102. Asia-Pacific Smart Meter Chip Sales Quantity by Application (2027-2032) & (K Units)
- Table 103. Asia-Pacific Smart Meter Chip Sales Quantity by Region (2021-2026) & (K Units)
- Table 104. Asia-Pacific Smart Meter Chip Sales Quantity by Region (2027-2032) & (K Units)
- Table 105. Asia-Pacific Smart Meter Chip Consumption Value by Region (2021-2026) & (USD Million)
- Table 106. Asia-Pacific Smart Meter Chip Consumption Value by Region (2027-2032) & (USD Million)
- Table 107. South America Smart Meter Chip Sales Quantity by Type (2021-2026) & (K Units)
- Table 108. South America Smart Meter Chip Sales Quantity by Type (2027-2032) & (K Units)
- Table 109. South America Smart Meter Chip Sales Quantity by Application (2021-2026) & (K Units)
- Table 110. South America Smart Meter Chip Sales Quantity by Application (2027-2032) & (K Units)
- Table 111. South America Smart Meter Chip Sales Quantity by Country (2021-2026) & (K Units)
- Table 112. South America Smart Meter Chip Sales Quantity by Country (2027-2032) & (K Units)
- Table 113. South America Smart Meter Chip Consumption Value by Country (2021-2026) & (USD Million)
- Table 114. South America Smart Meter Chip Consumption Value by Country (2027-2032) & (USD Million)
- Table 115. Middle East & Africa Smart Meter Chip Sales Quantity by Type (2021-2026) & (K Units)
- Table 116. Middle East & Africa Smart Meter Chip Sales Quantity by Type (2027-2032) & (K Units)
- Table 117. Middle East & Africa Smart Meter Chip Sales Quantity by Application (2021-2026) & (K Units)
- Table 118. Middle East & Africa Smart Meter Chip Sales Quantity by Application (2027-2032) & (K Units)
- Table 119. Middle East & Africa Smart Meter Chip Sales Quantity by Country (2021-2026) & (K Units)
- Table 120. Middle East & Africa Smart Meter Chip Sales Quantity by Country (2027-2032) & (K Units)
- Table 121. Middle East & Africa Smart Meter Chip Consumption Value by Country

(2021-2026) & (USD Million)

Table 122. Middle East & Africa Smart Meter Chip Consumption Value by Country

(2027-2032) & (USD Million)

Table 123. Smart Meter Chip Raw Material

Table 124. Key Manufacturers of Smart Meter Chip Raw Materials

Table 125. Smart Meter Chip Typical Distributors

Table 126. Smart Meter Chip Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Smart Meter Chip Picture

Figure 2. Global Smart Meter Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Smart Meter Chip Revenue Market Share by Type in 2025

Figure 4. Smart Electricity Meter Examples

Figure 5. Smart Water Meter Examples

Figure 6. Smart Gas Meter Examples

Figure 7. Global Smart Meter Chip Revenue by Functionality, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Smart Meter Chip Revenue Market Share by Functionality in 2025

Figure 9. Basic Smart Meter Examples

Figure 10. Advanced Smart Meter Examples

Figure 11. Global Smart Meter Chip Revenue by Chip Type, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Smart Meter Chip Revenue Market Share by Chip Type in 2025

Figure 13. MCU Examples

Figure 14. Metering Chip Examples

Figure 15. Communication Chip Examples

Figure 16. Global Smart Meter Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Smart Meter Chip Revenue Market Share by Application in 2025

Figure 18. Industrial Examples

Figure 19. Residential Examples

Figure 20. Commercial Examples

Figure 21. Global Smart Meter Chip Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global Smart Meter Chip Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global Smart Meter Chip Sales Quantity (2021-2032) & (K Units)

Figure 24. Global Smart Meter Chip Price (2021-2032) & (US\$/Unit)

Figure 25. Global Smart Meter Chip Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Smart Meter Chip Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Smart Meter Chip by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Smart Meter Chip Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Smart Meter Chip Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Smart Meter Chip Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Smart Meter Chip Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Smart Meter Chip Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Smart Meter Chip Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Smart Meter Chip Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global Smart Meter Chip Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Smart Meter Chip Revenue Market Share by Application (2021-2032)

Figure 42. Global Smart Meter Chip Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America Smart Meter Chip Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Smart Meter Chip Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America Smart Meter Chip Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America Smart Meter Chip Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Smart Meter Chip Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe Smart Meter Chip Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe Smart Meter Chip Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe Smart Meter Chip Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 55. France Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific Smart Meter Chip Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific Smart Meter Chip Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific Smart Meter Chip Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific Smart Meter Chip Consumption Value Market Share by Region (2021-2032)

Figure 63. China Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 66. India Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 69. South America Smart Meter Chip Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America Smart Meter Chip Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America Smart Meter Chip Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America Smart Meter Chip Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa Smart Meter Chip Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Smart Meter Chip Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Smart Meter Chip Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Smart Meter Chip Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa Smart Meter Chip Consumption Value (2021-2032) & (USD Million)

Figure 83. Smart Meter Chip Market Drivers

Figure 84. Smart Meter Chip Market Restraints

Figure 85. Smart Meter Chip Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of Smart Meter Chip in 2025

Figure 88. Manufacturing Process Analysis of Smart Meter Chip

Figure 89. Smart Meter Chip Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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