

Global Power Line Communications (PLC) IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Line Communications (PLC) IC market size is expected to reach \$ 1812 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Power Line Communication (PLC) IC are specialized communication SoCs/ICs that use existing power lines as the communication medium. Their core function is to modulate data generated by terminal devices onto power lines for transmission without adding dedicated communication cabling, and to complete demodulation, error correction, protocol parsing, and networking communication at the receiving end.

These IC/chips typically integrate PHY-layer modulation and demodulation, MAC protocol processing, DSP/MCU cores, memory, ADC/DAC, analog signal processing, security encryption, and interface control modules. They are mainly used in smart meter communication modules, electricity data acquisition systems, overseas AMI systems, low-voltage distribution networks, smart homes, smart lighting, photovoltaic and renewable energy systems, building energy management, and industrial IoT applications.

Power Line Communication (PLC) ICs are one of the foundational communication ICs used in smart grids, electricity data acquisition, and energy IoT systems. Their core value lies in enabling data transmission over existing power lines, reducing the need for additional communication wiring, and supporting large-scale, geographically dispersed, and complex grid-edge connectivity. From a product-scope perspective, the market can be divided into PLC communication modem chips, HPLC main chips, and PLC+RF dual-mode SoCs.

From the demand side, the core application markets remain smart meters, low-voltage distribution area communication, AMI systems, and digitalized distribution networks. In China, demand is strongly influenced by the technical roadmaps and procurement cycles of State Grid and China Southern Power Grid, with HPLC and dual-mode communication chips becoming the mainstream direction. Overseas markets are more centered on standards such as G3-PLC and PRIME, with continued adoption in smart metering upgrade projects across Europe, Latin America, India, and the Middle East. As power grid communication evolves from basic meter-reading toward distribution-area sensing, energy management, distributed photovoltaics, EV charging, and load control, the application boundary of PLC chips is expanding from smart meters to broader energy IoT scenarios.

From the competitive landscape perspective, Chinese suppliers have already formed a relatively strong industrial cluster. Companies such as Leaguer Microelectronics, HiTrend Technology, Eastsoft, Triductor, HiSilicon, Smartchip, Topscomm, UniComSemi, and Sinowell have established meaningful positions in HPLC, dual-mode communication, and grid-side applications. International suppliers such as STMicroelectronics, Renesas, Microchip, ADI, and onsemi still maintain technical and customer advantages in narrowband PLC, G3-PLC, AFE/line driver devices, and overseas AMI markets. Overall, this market is not driven solely by chip design capability; it also depends heavily on standards compatibility, protocol stacks, interoperability testing, field communication stability, grid customer qualification, and long-term supply capability.

Looking ahead, PLC IC market growth is unlikely to come mainly from higher unit chip prices. Instead, it will be driven by the expansion of connected nodes, upgrades to dual-mode communication, spillover into energy management applications, and continued domestic substitution. In the short term, grid procurement cycles may create periodic volatility; over the medium to long term, PLC chips will remain key components in low-cost, high-coverage energy connectivity solutions.

This report studies the global Power Line Communications (PLC) IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Line Communications (PLC) IC 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 Power Line Communications (PLC) IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Line Communications (PLC) IC total production and demand, 2021-2032, (Million Pcs)

Global Power Line Communications (PLC) IC total production value, 2021-2032, (USD Million)

Global Power Line Communications (PLC) IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)

Global Power Line Communications (PLC) IC consumption by region & country, CAGR, 2021-2032 & (Million Pcs)

U.S. VS China: Power Line Communications (PLC) IC domestic production, consumption, key domestic manufacturers and share

Global Power Line Communications (PLC) IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Pcs)

Global Power Line Communications (PLC) IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

Global Power Line Communications (PLC) IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

This report profiles key players in the global Power Line Communications (PLC) IC 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, ON Semiconductor Corporation, Infineon Technologies AG, Leaguer Microelectronics, Nisshinbo Micro Devices Inc, Renesas Electronics Corporation, Analog Devices, Inc/ADI, Qualcomm/Atheros, Microchip Technology Inc., Shanghai Belling Co., Ltd, 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 Power Line Communications (PLC) IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Pcs) and average price (USD/K 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 Power Line Communications (PLC) IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Line Communications (PLC) IC Market, Segmentation by Type:

Broadband /High Speed PLC ICs

Narrowband PLC ICs

Global Power Line Communications (PLC) IC Market, Segmentation by Product Form:

PLC Modem SoC

PLC Analog Front-End IC etc.

Global Power Line Communications (PLC) IC Market, Segmentation by Communication Method:

PLC+RF Dual-mode SoC

Single-mode PLC IC

Global Power Line Communications (PLC) IC Market, Segmentation by Application:

Smart Grid

Smart Home

Energy Efficiency / Energy Management

Intelligent Control

Smart City

EV Charging Pile

Others

Companies Profiled:

STMicroelectronics

ON Semiconductor Corporation

Infineon Technologies AG

Leaguer Microelectronics

Nisshinbo Micro Devices Inc

Renesas Electronics Corporation

Analog Devices, Inc/ADI

Qualcomm/Atheros

Microchip Technology Inc.

Shanghai Belling Co., Ltd

Beijing Xiaocheng Technology Stock Co., Ltd

HiSilicon

Risecomm Group Holdings Limited

Qingdao Topscomm Communication Inc

Beijing Semiconductor Technology Co., Ltd

ClouderSemi

Triductor Technology (Suzhou) Inc

Eastsoft

Zhuhai Zhonghui Microelectronics Co., Ltd

Aerospace CPower Sci. & Tech. (Chongqing) Ltd

UniComSemi

WUQI Microelectronics

SmartChip

HiTrend Technology (Shanghai) Co., Ltd.

Key Questions Answered:

1. How big is the global Power Line Communications (PLC) IC market?
2. What is the demand of the global Power Line Communications (PLC) IC market?
3. What is the year over year growth of the global Power Line Communications (PLC) IC market?

4. What is the production and production value of the global Power Line Communications (PLC) IC market?
5. Who are the key producers in the global Power Line Communications (PLC) IC market?
6. What are the growth factors driving the market demand?

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