

Global High-speed Power Line Communication IC 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 High-speed Power Line Communication IC market size was valued at US\$ 376 million in 2025 and is forecast to a readjusted size of US\$ 572 million by 2032 with a CAGR of 6.1% during review period.

High-speed PLC chips (High-speed Power Line Communication IC/chips) are core chips designed for high-speed power line carrier communication in low-voltage power line communication networks. Typically integrating physical layer modulation/demodulation, MAC protocol processing, digital-to-analog/analog-to-digital conversion, digital signal processing, encryption and security, network management, and a main control processing unit, they enable the transmission of electricity usage information, metering data, topology identification data, device status data, and control commands over existing AC power lines.

Currently, high-speed PLC chips are SoCs characterized by high certification barriers driven by grid standards, low-to-mid-range unit prices, and high-volume shipments. The prevailing market price for single-mode HPLC chips is approximately 8?13 RMB/Unit, while dual-mode HPLC+HRF chips are priced at around 15?25 RMB/Unit.

The market for high-speed PLC chips (HPLC) has evolved from an early-stage communication chip segment mainly serving smart meter reading into a critical communication foundation for low-voltage distribution digitalization. Its core value lies not merely in replacing narrowband PLC, but in enabling higher communication success rates, greater concurrency, and lower operation and maintenance costs in complex low-voltage power line environments through the 0.7?12 MHz frequency band, OFDM

modulation, multi-carrier noise immunity, and networking/routing capabilities. The core component of an HPLC communication unit is the chip, and market access typically depends on passing interoperability testing.

On the demand side, the main market for HPLC still comes from State Grid and China Southern Power Grid applications, including smart meters, concentrators, collectors, and low-voltage distribution area communication upgrades. Going forward, the key market drivers will not be traditional incremental smart meter demand, but rather the penetration of HPLC+HRF dual-mode solutions, replacement of existing communication units, expansion of low-voltage distribution sensing terminals, access demand from distributed photovoltaics, energy storage, and EV charging piles, as well as grid companies' continued investment in transparent and fine-grained management of low-voltage distribution areas.

Overall, high-speed PLC chips represent a specialized communication chip segment characterized by relatively visible demand, strong standards barriers, long customer qualification cycles, and a supply landscape dominated by domestic Chinese vendors. However, market expansion is also affected by annual grid tendering cycles, smart meter replacement schedules, declining chip ASPs, and changes in the competitive landscape for dual-mode communication solutions.

This report is a detailed and comprehensive analysis for global High-speed Power Line Communication IC 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 High-speed Power Line Communication IC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global High-speed Power Line Communication IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global High-speed Power Line Communication IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global High-speed Power Line Communication IC market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 High-speed Power Line Communication IC

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 High-speed Power Line Communication IC 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 Beijing Smartchip Microelectronics Technology Co., Ltd., HiSilicon Technologies Co., Ltd., Qingdao Eastsoft Communication Technology Co., Ltd., Leaguer (Shenzhen) MicroElectronics Corp., Qingdao Topscomm Communication Inc., Triductor Technology (Suzhou) Inc., Hi-Trend Technology (Shanghai) Co., Ltd., Beijing Silicon Semiconductor Co., Ltd., Zhuhai Sinowell Microelectronics Co., Ltd., Hangzhou Unicomsemi Semiconductor Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-speed Power Line Communication IC 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

HPLC Single-mode PLC

HPLC+HRF Dual-mode

Market segment by End

Meter-side / STA-side HPLC Chip

Collector / Relay-node HPLC Chip

Concentrator-side / CCO-side HPLC Chip

Non-meter Low-voltage Device HPLC Chip

Market segment by Application

AMI / Smart Metering

Low-voltage Distribution Digitalization

Distributed Energy and New Power System Access

Municipal and Public Utility Energy Management

Building, Campus and Industrial Energy Management

Smart Home and General IoT PLC Communication

Major players covered

Beijing Smartchip Microelectronics Technology Co., Ltd.

HiSilicon Technologies Co., Ltd.

Qingdao Eastsoft Communication Technology Co., Ltd.

Leaguer (Shenzhen) MicroElectronics Corp.

Qingdao Topscomm Communication Inc.

Triductor Technology (Suzhou) Inc.

Hi-Trend Technology (Shanghai) Co., Ltd.

Beijing Siliconductor Semiconductor Co., Ltd.

Zhuhai Sinowell Microelectronics Co., Ltd.

Hangzhou Unicomsemi Semiconductor Co., Ltd.

Chongqing WuQi Microelectronics Co., Ltd.

Beijing Zhongchen Microelectronics Co., Ltd.

Hangzhong Tianqi (Chongqing) Microelectronics Co., Ltd.

Risecomm Group Holdings Limited

Beijing Xiaocheng Technology Stock Co., Ltd.

Beijing Qianjing Wuyou Electronic Technology Co., Ltd.

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 High-speed Power Line Communication IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-speed Power Line Communication IC, with price, sales quantity, revenue, and global market share of High-speed Power Line Communication IC from 2021 to 2026.

Chapter 3, the High-speed Power Line Communication IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-speed Power Line Communication IC 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 High-speed Power Line Communication IC 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 High-speed Power Line Communication IC.

Chapter 14 and 15, to describe High-speed Power Line Communication IC sales channel, distributors, customers, research findings and conclusion.

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