

Global High-speed Power Line Communication IC Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G415682B2D00EN.html>

Date: August 2026

Pages: 138

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

ID: G415682B2D00EN

Abstracts

The global High-speed Power Line Communication IC market size is expected to reach \$ 572 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

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 studies the global High-speed Power Line Communication IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-speed Power Line Communication 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 High-speed Power Line Communication IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-speed Power Line Communication IC total production and demand, 2021-2032, (Million Units)

Global High-speed Power Line Communication IC total production value, 2021-2032, (USD Million)

Global High-speed Power Line Communication IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global High-speed Power Line Communication IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: High-speed Power Line Communication IC domestic production,

consumption, key domestic manufacturers and share

Global High-speed Power Line Communication IC production by manufacturer,
production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global High-speed Power Line Communication IC production by Type, production,
value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global High-speed Power Line Communication IC production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global High-speed Power Line Communication 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 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., 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 High-speed Power Line Communication IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 High-speed Power Line Communication IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-speed Power Line Communication IC Market, Segmentation by Type:

HPLC Single-mode PLC

HPLC+HRF Dual-mode

Global High-speed Power Line Communication IC Market, Segmentation 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

Global High-speed Power Line Communication IC Market, Segmentation 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

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global High-speed Power Line Communication IC market?
2. What is the demand of the global High-speed Power Line Communication IC market?
3. What is the year over year growth of the global High-speed Power Line Communication IC market?
4. What is the production and production value of the global High-speed Power Line Communication IC market?
5. Who are the key producers in the global High-speed Power Line Communication IC market?
6. What are the growth factors driving the market demand?

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