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# Global Power Line Communications (PLC) IC Market Growth 2026-2032

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## Abstracts

The global Power Line Communications (PLC) IC market size is predicted to grow from US$ 1117 million in 2025 to US$ 1758 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 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.

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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.

LP Information, Inc. (LPI) ' newest research report, the “Power Line Communications (PLC) IC Industry Forecast” looks at past sales and reviews total world Power Line Communications (PLC) IC sales in 2025, providing a comprehensive analysis by region and market sector of projected Power Line Communications (PLC) IC sales for 2026 through 2032. With Power Line Communications (PLC) IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Power Line Communications (PLC) IC industry.

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This Insight Report provides a comprehensive analysis of the global Power Line Communications (PLC) IC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Power Line Communications (PLC) IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Power Line Communications (PLC) IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power Line Communications (PLC) IC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Power Line Communications (PLC) IC.

This report presents a comprehensive overview, market shares, and growth opportunities of Power Line Communications (PLC) IC market by product type, application, key manufacturers and key regions and countries.

## Segmentation by Type:

Broadband /High Speed PLC ICs

Narrowband PLC ICs

## Segmentation by Product Form:

PLC Modem SoC

PLC Analog Front-End IC etc.

## Segmentation by Communication Method:

PLC+RF Dual-mode SoC

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Single-mode PLC IC

## Segmentation by Application:

Smart Grid

Smart Home

Energy Efficiency / Energy Management

Intelligent Control

Smart City

EV Charging Pile

Others

## This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- STMicroelectronics

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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 Siliconductor Technology Co., Ltd

ClouderSemi

Triductor Technology (Suzhou) Inc

Eastsoft

Zhuhai Zhonghui Microelectronics Co., Ltd

Aerospace CPower Sci. & Tech. (Chongqing) Ltd

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UniComSemi

WUQI Microelectronics

SmartChip

HiTrend Technology (Shanghai) Co., Ltd.

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Power Line Communications (PLC) IC market?

What factors are driving Power Line Communications (PLC) IC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Power Line Communications (PLC) IC market opportunities vary by end market size?

How does Power Line Communications (PLC) IC break out by Type, by Application?

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# Contents

## 1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

## 2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Power Line Communications (PLC) IC Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Power Line Communications (PLC) IC by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Power Line Communications (PLC) IC by Country/Region, 2021, 2025 & 2032
2.2 Power Line Communications (PLC) IC Segment by Type
  2.2.1 Broadband /High Speed PLC ICs
  2.2.2 Narrowband PLC ICs
  2.2.3 Power Line Communications (PLC) IC Sales by Type
    2.2.3.1 Global Power Line Communications (PLC) IC Sales Market Share by Type (2021-2026)
    2.2.3.2 Global Power Line Communications (PLC) IC Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global Power Line Communications (PLC) IC Sale Price by Type (2021-2026)
2.3 Power Line Communications (PLC) IC Segment by Product Form
  2.3.1 PLC Modem SoC
  2.3.2 PLC Analog Front-End IC etc.
  2.3.3 Power Line Communications (PLC) IC Sales by Product Form
    2.3.3.1 Global Power Line Communications (PLC) IC Sales Market Share by Product Form (2021-2026)
    2.3.3.2 Global Power Line Communications (PLC) IC Revenue and Market Share by Product Form (2021-2026)
    2.3.3.3 Global Power Line Communications (PLC) IC Sale Price by Product Form

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(2021-2026)
2.4 Power Line Communications (PLC) IC Segment by Communication Method
2.4.1 PLC+RF Dual-mode SoC
2.4.2 Single-mode PLC IC
2.4.3 Power Line Communications (PLC) IC Sales by Communication Method
2.4.3.1 Global Power Line Communications (PLC) IC Sales Market Share by Communication Method (2021-2026)
2.4.3.2 Global Power Line Communications (PLC) IC Revenue and Market Share by Communication Method (2021-2026)
2.4.3.3 Global Power Line Communications (PLC) IC Sale Price by Communication Method (2021-2026)
2.5 Power Line Communications (PLC) IC Segment by Application
2.5.1 Smart Grid
2.5.2 Smart Home
2.5.3 Energy Efficiency / Energy Management
2.5.4 Intelligent Control
2.5.5 Smart City
2.5.6 EV Charging Pile
2.5.7 Others
2.5.8 Power Line Communications (PLC) IC Sales by Application
2.5.8.1 Global Power Line Communications (PLC) IC Sale Market Share by Application (2021-2026)
2.5.8.2 Global Power Line Communications (PLC) IC Revenue and Market Share by Application (2021-2026)
2.5.8.3 Global Power Line Communications (PLC) IC Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

3.1 Global Power Line Communications (PLC) IC Breakdown Data by Company
3.1.1 Global Power Line Communications (PLC) IC Annual Sales by Company (2021-2026)
3.1.2 Global Power Line Communications (PLC) IC Sales Market Share by Company (2021-2026)
3.2 Global Power Line Communications (PLC) IC Annual Revenue by Company (2021-2026)
3.2.1 Global Power Line Communications (PLC) IC Revenue by Company (2021-2026)
3.2.2 Global Power Line Communications (PLC) IC Revenue Market Share by

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Company (2021-2026)
3.3 Global Power Line Communications (PLC) IC Sale Price by Company
3.4 Key Manufacturers Power Line Communications (PLC) IC Producing Area Distribution, Sales Area, Product Type
  3.4.1 Key Manufacturers Power Line Communications (PLC) IC Product Location Distribution
  3.4.2 Players Power Line Communications (PLC) IC Products Offered
3.5 Market Concentration Rate Analysis
  3.5.1 Competition Landscape Analysis
  3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

## 4 WORLD HISTORIC REVIEW FOR POWER LINE COMMUNICATIONS (PLC) IC BY GEOGRAPHIC REGION

4.1 World Historic Power Line Communications (PLC) IC Market Size by Geographic Region (2021-2026)
  4.1.1 Global Power Line Communications (PLC) IC Annual Sales by Geographic Region (2021-2026)
  4.1.2 Global Power Line Communications (PLC) IC Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Power Line Communications (PLC) IC Market Size by Country/Region (2021-2026)
  4.2.1 Global Power Line Communications (PLC) IC Annual Sales by Country/Region (2021-2026)
  4.2.2 Global Power Line Communications (PLC) IC Annual Revenue by Country/Region (2021-2026)
4.3 Americas Power Line Communications (PLC) IC Sales Growth
4.4 APAC Power Line Communications (PLC) IC Sales Growth
4.5 Europe Power Line Communications (PLC) IC Sales Growth
4.6 Middle East & Africa Power Line Communications (PLC) IC Sales Growth

## 5 AMERICAS

5.1 Americas Power Line Communications (PLC) IC Sales by Country
  5.1.1 Americas Power Line Communications (PLC) IC Sales by Country (2021-2026)
  5.1.2 Americas Power Line Communications (PLC) IC Revenue by Country (2021-2026)

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5.2 Americas Power Line Communications (PLC) IC Sales by Type (2021-2026)
5.3 Americas Power Line Communications (PLC) IC Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

**6 APAC**

6.1 APAC Power Line Communications (PLC) IC Sales by Region
  6.1.1 APAC Power Line Communications (PLC) IC Sales by Region (2021-2026)
  6.1.2 APAC Power Line Communications (PLC) IC Revenue by Region (2021-2026)
6.2 APAC Power Line Communications (PLC) IC Sales by Type (2021-2026)
6.3 APAC Power Line Communications (PLC) IC Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

**7 EUROPE**

7.1 Europe Power Line Communications (PLC) IC by Country
  7.1.1 Europe Power Line Communications (PLC) IC Sales by Country (2021-2026)
  7.1.2 Europe Power Line Communications (PLC) IC Revenue by Country (2021-2026)
7.2 Europe Power Line Communications (PLC) IC Sales by Type (2021-2026)
7.3 Europe Power Line Communications (PLC) IC Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

**8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Power Line Communications (PLC) IC by Country
  8.1.1 Middle East & Africa Power Line Communications (PLC) IC Sales by Country

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(2021-2026)
8.1.2 Middle East & Africa Power Line Communications (PLC) IC Revenue by Country (2021-2026)
8.2 Middle East & Africa Power Line Communications (PLC) IC Sales by Type (2021-2026)
8.3 Middle East & Africa Power Line Communications (PLC) IC Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

**9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

**10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Power Line Communications (PLC) IC
10.3 Manufacturing Process Analysis of Power Line Communications (PLC) IC
10.4 Industry Chain Structure of Power Line Communications (PLC) IC

**11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel
11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 Power Line Communications (PLC) IC Distributors
11.3 Power Line Communications (PLC) IC Customer

**12 WORLD FORECAST REVIEW FOR POWER LINE COMMUNICATIONS (PLC) IC BY GEOGRAPHIC REGION**

12.1 Global Power Line Communications (PLC) IC Market Size Forecast by Region
12.1.1 Global Power Line Communications (PLC) IC Forecast by Region (2027-2032)

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12.1.2 Global Power Line Communications (PLC) IC Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Power Line Communications (PLC) IC Forecast by Type (2027-2032)
12.7 Global Power Line Communications (PLC) IC Forecast by Application (2027-2032)

## 13 KEY PLAYERS ANALYSIS

13.1 STMicroelectronics
13.1.1 STMicroelectronics Company Information
13.1.2 STMicroelectronics Power Line Communications (PLC) IC Product Portfolios and Specifications
13.1.3 STMicroelectronics Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 STMicroelectronics Main Business Overview
13.1.5 STMicroelectronics Latest Developments
13.2 ON Semiconductor Corporation
13.2.1 ON Semiconductor Corporation Company Information
13.2.2 ON Semiconductor Corporation Power Line Communications (PLC) IC Product Portfolios and Specifications
13.2.3 ON Semiconductor Corporation Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 ON Semiconductor Corporation Main Business Overview
13.2.5 ON Semiconductor Corporation Latest Developments
13.3 Infineon Technologies AG
13.3.1 Infineon Technologies AG Company Information
13.3.2 Infineon Technologies AG Power Line Communications (PLC) IC Product Portfolios and Specifications
13.3.3 Infineon Technologies AG Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Infineon Technologies AG Main Business Overview
13.3.5 Infineon Technologies AG Latest Developments
13.4 Leaguer Microelectronics
13.4.1 Leaguer Microelectronics Company Information
13.4.2 Leaguer Microelectronics Power Line Communications (PLC) IC Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.4.3 Leaguer Microelectronics Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Leaguer Microelectronics Main Business Overview
13.4.5 Leaguer Microelectronics Latest Developments
13.5 Nisshinbo Micro Devices Inc
13.5.1 Nisshinbo Micro Devices Inc Company Information
13.5.2 Nisshinbo Micro Devices Inc Power Line Communications (PLC) IC Product Portfolios and Specifications
13.5.3 Nisshinbo Micro Devices Inc Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Nisshinbo Micro Devices Inc Main Business Overview
13.5.5 Nisshinbo Micro Devices Inc Latest Developments
13.6 Renesas Electronics Corporation
13.6.1 Renesas Electronics Corporation Company Information
13.6.2 Renesas Electronics Corporation Power Line Communications (PLC) IC Product Portfolios and Specifications
13.6.3 Renesas Electronics Corporation Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Renesas Electronics Corporation Main Business Overview
13.6.5 Renesas Electronics Corporation Latest Developments
13.7 Analog Devices, Inc/ADI
13.7.1 Analog Devices, Inc/ADI Company Information
13.7.2 Analog Devices, Inc/ADI Power Line Communications (PLC) IC Product Portfolios and Specifications
13.7.3 Analog Devices, Inc/ADI Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Analog Devices, Inc/ADI Main Business Overview
13.7.5 Analog Devices, Inc/ADI Latest Developments
13.8 Qualcomm/Atheros
13.8.1 Qualcomm/Atheros Company Information
13.8.2 Qualcomm/Atheros Power Line Communications (PLC) IC Product Portfolios and Specifications
13.8.3 Qualcomm/Atheros Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Qualcomm/Atheros Main Business Overview
13.8.5 Qualcomm/Atheros Latest Developments
13.9 Microchip Technology Inc.
13.9.1 Microchip Technology Inc. Company Information
13.9.2 Microchip Technology Inc. Power Line Communications (PLC) IC Product

+357 96 030922
info@marketpublishers.com

Portfolios and Specifications
13.9.3 Microchip Technology Inc. Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Microchip Technology Inc. Main Business Overview
13.9.5 Microchip Technology Inc. Latest Developments
13.10 Shanghai Belling Co., Ltd
13.10.1 Shanghai Belling Co., Ltd Company Information
13.10.2 Shanghai Belling Co., Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
13.10.3 Shanghai Belling Co., Ltd Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Shanghai Belling Co., Ltd Main Business Overview
13.10.5 Shanghai Belling Co., Ltd Latest Developments
13.11 Beijing Xiaocheng Technology Stock Co., Ltd
13.11.1 Beijing Xiaocheng Technology Stock Co., Ltd Company Information
13.11.2 Beijing Xiaocheng Technology Stock Co., Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
13.11.3 Beijing Xiaocheng Technology Stock Co., Ltd Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Beijing Xiaocheng Technology Stock Co., Ltd Main Business Overview
13.11.5 Beijing Xiaocheng Technology Stock Co., Ltd Latest Developments
13.12 HiSilicon
13.12.1 HiSilicon Company Information
13.12.2 HiSilicon Power Line Communications (PLC) IC Product Portfolios and Specifications
13.12.3 HiSilicon Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 HiSilicon Main Business Overview
13.12.5 HiSilicon Latest Developments
13.13 Risecomm Group Holdings Limited
13.13.1 Risecomm Group Holdings Limited Company Information
13.13.2 Risecomm Group Holdings Limited Power Line Communications (PLC) IC Product Portfolios and Specifications
13.13.3 Risecomm Group Holdings Limited Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Risecomm Group Holdings Limited Main Business Overview
13.13.5 Risecomm Group Holdings Limited Latest Developments
13.14 Qingdao Topscomm Communication Inc
13.14.1 Qingdao Topscomm Communication Inc Company Information

+357 96 030922
info@marketpublishers.com

13.14.2 Qingdao Topscomm Communication Inc Power Line Communications (PLC) IC Product Portfolios and Specifications
13.14.3 Qingdao Topscomm Communication Inc Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Qingdao Topscomm Communication Inc Main Business Overview
13.14.5 Qingdao Topscomm Communication Inc Latest Developments
13.15 Beijing Siliconductor Technology Co., Ltd
13.15.1 Beijing Siliconductor Technology Co., Ltd Company Information
13.15.2 Beijing Siliconductor Technology Co., Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
13.15.3 Beijing Siliconductor Technology Co., Ltd Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 Beijing Siliconductor Technology Co., Ltd Main Business Overview
13.15.5 Beijing Siliconductor Technology Co., Ltd Latest Developments
13.16 ClouderSemi
13.16.1 ClouderSemi Company Information
13.16.2 ClouderSemi Power Line Communications (PLC) IC Product Portfolios and Specifications
13.16.3 ClouderSemi Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 ClouderSemi Main Business Overview
13.16.5 ClouderSemi Latest Developments
13.17 Triductor Technology (Suzhou) Inc
13.17.1 Triductor Technology (Suzhou) Inc Company Information
13.17.2 Triductor Technology (Suzhou) Inc Power Line Communications (PLC) IC Product Portfolios and Specifications
13.17.3 Triductor Technology (Suzhou) Inc Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 Triductor Technology (Suzhou) Inc Main Business Overview
13.17.5 Triductor Technology (Suzhou) Inc Latest Developments
13.18 Eastsoft
13.18.1 Eastsoft Company Information
13.18.2 Eastsoft Power Line Communications (PLC) IC Product Portfolios and Specifications
13.18.3 Eastsoft Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Eastsoft Main Business Overview
13.18.5 Eastsoft Latest Developments
13.19 Zhuhai Zhonghui Microelectronics Co., Ltd

+357 96 030922
info@marketpublishers.com

13.19.1 Zhuhai Zhonghui Microelectronics Co., Ltd Company Information
13.19.2 Zhuhai Zhonghui Microelectronics Co., Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
13.19.3 Zhuhai Zhonghui Microelectronics Co., Ltd Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Zhuhai Zhonghui Microelectronics Co., Ltd Main Business Overview
13.19.5 Zhuhai Zhonghui Microelectronics Co., Ltd Latest Developments
13.20 Aerospace CPower Sci. & Tech. (Chongqing) Ltd
13.20.1 Aerospace CPower Sci. & Tech. (Chongqing) Ltd Company Information
13.20.2 Aerospace CPower Sci. & Tech. (Chongqing) Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
13.20.3 Aerospace CPower Sci. & Tech. (Chongqing) Ltd Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.20.4 Aerospace CPower Sci. & Tech. (Chongqing) Ltd Main Business Overview
13.20.5 Aerospace CPower Sci. & Tech. (Chongqing) Ltd Latest Developments
13.21 UniComSemi
13.21.1 UniComSemi Company Information
13.21.2 UniComSemi Power Line Communications (PLC) IC Product Portfolios and Specifications
13.21.3 UniComSemi Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.21.4 UniComSemi Main Business Overview
13.21.5 UniComSemi Latest Developments
13.22 WUQI Microelectronics
13.22.1 WUQI Microelectronics Company Information
13.22.2 WUQI Microelectronics Power Line Communications (PLC) IC Product Portfolios and Specifications
13.22.3 WUQI Microelectronics Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.22.4 WUQI Microelectronics Main Business Overview
13.22.5 WUQI Microelectronics Latest Developments
13.23 SmartChip
13.23.1 SmartChip Company Information
13.23.2 SmartChip Power Line Communications (PLC) IC Product Portfolios and Specifications
13.23.3 SmartChip Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.23.4 SmartChip Main Business Overview
13.23.5 SmartChip Latest Developments

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info@marketpublishers.com

13.24 HiTrend Technology (Shanghai) Co., Ltd.
13.24.1 HiTrend Technology (Shanghai) Co., Ltd. Company Information
13.24.2 HiTrend Technology (Shanghai) Co., Ltd. Power Line Communications (PLC) IC Product Portfolios and Specifications
13.24.3 HiTrend Technology (Shanghai) Co., Ltd. Power Line Communications (PLC) IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.24.4 HiTrend Technology (Shanghai) Co., Ltd. Main Business Overview
13.24.5 HiTrend Technology (Shanghai) Co., Ltd. Latest Developments

**14 RESEARCH FINDINGS AND CONCLUSION**

+357 96 030922
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# List Of Tables

## LIST OF TABLES

Table 1. Power Line Communications (PLC) IC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Power Line Communications (PLC) IC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Broadband /High Speed PLC ICs
Table 4. Major Players of Narrowband PLC ICs
Table 5. Global Power Line Communications (PLC) IC Sales by Type (2021-2026) & (Million Pcs)
Table 6. Global Power Line Communications (PLC) IC Sales Market Share by Type (2021-2026)
Table 7. Global Power Line Communications (PLC) IC Revenue by Type (2021-2026) & ($ million)
Table 8. Global Power Line Communications (PLC) IC Revenue Market Share by Type (2021-2026)
Table 9. Global Power Line Communications (PLC) IC Sale Price by Type (2021-2026) & (USD/K Unit)
Table 10. Major Players of PLC Modem SoC
Table 11. Major Players of PLC Analog Front-End IC etc.
Table 12. Global Power Line Communications (PLC) IC Sales by Product Form (2021-2026) & (Million Pcs)
Table 13. Global Power Line Communications (PLC) IC Sales Market Share by Product Form (2021-2026)
Table 14. Global Power Line Communications (PLC) IC Revenue by Product Form (2021-2026) & ($ million)
Table 15. Global Power Line Communications (PLC) IC Revenue Market Share by Product Form (2021-2026)
Table 16. Global Power Line Communications (PLC) IC Sale Price by Product Form (2021-2026) & (USD/K Unit)
Table 17. Major Players of PLC+RF Dual-mode SoC
Table 18. Major Players of Single-mode PLC IC
Table 19. Global Power Line Communications (PLC) IC Sales by Communication Method (2021-2026) & (Million Pcs)
Table 20. Global Power Line Communications (PLC) IC Sales Market Share by Communication Method (2021-2026)
Table 21. Global Power Line Communications (PLC) IC Revenue by Communication

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Method (2021-2026) & ($ million)
Table 22. Global Power Line Communications (PLC) IC Revenue Market Share by Communication Method (2021-2026)
Table 23. Global Power Line Communications (PLC) IC Sale Price by Communication Method (2021-2026) & (USD/K Unit)
Table 24. Global Power Line Communications (PLC) IC Sale by Application (2021-2026) & (Million Pcs)
Table 25. Global Power Line Communications (PLC) IC Sale Market Share by Application (2021-2026)
Table 26. Global Power Line Communications (PLC) IC Revenue by Application (2021-2026) & ($ million)
Table 27. Global Power Line Communications (PLC) IC Revenue Market Share by Application (2021-2026)
Table 28. Global Power Line Communications (PLC) IC Sale Price by Application (2021-2026) & (USD/K Unit)
Table 29. Global Power Line Communications (PLC) IC Sales by Company (2021-2026) & (Million Pcs)
Table 30. Global Power Line Communications (PLC) IC Sales Market Share by Company (2021-2026)
Table 31. Global Power Line Communications (PLC) IC Revenue by Company (2021-2026) & ($ millions)
Table 32. Global Power Line Communications (PLC) IC Revenue Market Share by Company (2021-2026)
Table 33. Global Power Line Communications (PLC) IC Sale Price by Company (2021-2026) & (USD/K Unit)
Table 34. Key Manufacturers Power Line Communications (PLC) IC Producing Area Distribution and Sales Area
Table 35. Players Power Line Communications (PLC) IC Products Offered
Table 36. Power Line Communications (PLC) IC Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 37. New Products and Potential Entrants
Table 38. Market M&A Activity & Strategy
Table 39. Global Power Line Communications (PLC) IC Sales by Geographic Region (2021-2026) & (Million Pcs)
Table 40. Global Power Line Communications (PLC) IC Sales Market Share Geographic Region (2021-2026)
Table 41. Global Power Line Communications (PLC) IC Revenue by Geographic Region (2021-2026) & ($ millions)
Table 42. Global Power Line Communications (PLC) IC Revenue Market Share by

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Geographic Region (2021-2026)
Table 43. Global Power Line Communications (PLC) IC Sales by Country/Region (2021-2026) & (Million Pcs)
Table 44. Global Power Line Communications (PLC) IC Sales Market Share by Country/Region (2021-2026)
Table 45. Global Power Line Communications (PLC) IC Revenue by Country/Region (2021-2026) & ($ millions)
Table 46. Global Power Line Communications (PLC) IC Revenue Market Share by Country/Region (2021-2026)
Table 47. Americas Power Line Communications (PLC) IC Sales by Country (2021-2026) & (Million Pcs)
Table 48. Americas Power Line Communications (PLC) IC Sales Market Share by Country (2021-2026)
Table 49. Americas Power Line Communications (PLC) IC Revenue by Country (2021-2026) & ($ millions)
Table 50. Americas Power Line Communications (PLC) IC Sales by Type (2021-2026) & (Million Pcs)
Table 51. Americas Power Line Communications (PLC) IC Sales by Application (2021-2026) & (Million Pcs)
Table 52. APAC Power Line Communications (PLC) IC Sales by Region (2021-2026) & (Million Pcs)
Table 53. APAC Power Line Communications (PLC) IC Sales Market Share by Region (2021-2026)
Table 54. APAC Power Line Communications (PLC) IC Revenue by Region (2021-2026) & ($ millions)
Table 55. APAC Power Line Communications (PLC) IC Sales by Type (2021-2026) & (Million Pcs)
Table 56. APAC Power Line Communications (PLC) IC Sales by Application (2021-2026) & (Million Pcs)
Table 57. Europe Power Line Communications (PLC) IC Sales by Country (2021-2026) & (Million Pcs)
Table 58. Europe Power Line Communications (PLC) IC Revenue by Country (2021-2026) & ($ millions)
Table 59. Europe Power Line Communications (PLC) IC Sales by Type (2021-2026) & (Million Pcs)
Table 60. Europe Power Line Communications (PLC) IC Sales by Application (2021-2026) & (Million Pcs)
Table 61. Middle East & Africa Power Line Communications (PLC) IC Sales by Country (2021-2026) & (Million Pcs)

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Table 62. Middle East & Africa Power Line Communications (PLC) IC Revenue Market Share by Country (2021-2026)
Table 63. Middle East & Africa Power Line Communications (PLC) IC Sales by Type (2021-2026) & (Million Pcs)
Table 64. Middle East & Africa Power Line Communications (PLC) IC Sales by Application (2021-2026) & (Million Pcs)
Table 65. Key Market Drivers & Growth Opportunities of Power Line Communications (PLC) IC
Table 66. Key Market Challenges & Risks of Power Line Communications (PLC) IC
Table 67. Key Industry Trends of Power Line Communications (PLC) IC
Table 68. Power Line Communications (PLC) IC Raw Material
Table 69. Key Suppliers of Raw Materials
Table 70. Power Line Communications (PLC) IC Distributors List
Table 71. Power Line Communications (PLC) IC Customer List
Table 72. Global Power Line Communications (PLC) IC Sales Forecast by Region (2027-2032) & (Million Pcs)
Table 73. Global Power Line Communications (PLC) IC Revenue Forecast by Region (2027-2032) & ($ millions)
Table 74. Americas Power Line Communications (PLC) IC Sales Forecast by Country (2027-2032) & (Million Pcs)
Table 75. Americas Power Line Communications (PLC) IC Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 76. APAC Power Line Communications (PLC) IC Sales Forecast by Region (2027-2032) & (Million Pcs)
Table 77. APAC Power Line Communications (PLC) IC Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 78. Europe Power Line Communications (PLC) IC Sales Forecast by Country (2027-2032) & (Million Pcs)
Table 79. Europe Power Line Communications (PLC) IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 80. Middle East & Africa Power Line Communications (PLC) IC Sales Forecast by Country (2027-2032) & (Million Pcs)
Table 81. Middle East & Africa Power Line Communications (PLC) IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 82. Global Power Line Communications (PLC) IC Sales Forecast by Type (2027-2032) & (Million Pcs)
Table 83. Global Power Line Communications (PLC) IC Revenue Forecast by Type (2027-2032) & ($ millions)
Table 84. Global Power Line Communications (PLC) IC Sales Forecast by Application

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(2027-2032) & (Million Pcs)
Table 85. Global Power Line Communications (PLC) IC Revenue Forecast by Application (2027-2032) & ($ millions)
Table 86. STMicroelectronics Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 87. STMicroelectronics Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 88. STMicroelectronics Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 89. STMicroelectronics Main Business
Table 90. STMicroelectronics Latest Developments
Table 91. ON Semiconductor Corporation Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 92. ON Semiconductor Corporation Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 93. ON Semiconductor Corporation Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 94. ON Semiconductor Corporation Main Business
Table 95. ON Semiconductor Corporation Latest Developments
Table 96. Infineon Technologies AG Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 97. Infineon Technologies AG Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 98. Infineon Technologies AG Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 99. Infineon Technologies AG Main Business
Table 100. Infineon Technologies AG Latest Developments
Table 101. Leaguer Microelectronics Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 102. Leaguer Microelectronics Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 103. Leaguer Microelectronics Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 104. Leaguer Microelectronics Main Business
Table 105. Leaguer Microelectronics Latest Developments
Table 106. Nisshinbo Micro Devices Inc Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 107. Nisshinbo Micro Devices Inc Power Line Communications (PLC) IC Product Portfolios and Specifications

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Table 108. Nisshinbo Micro Devices Inc Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 109. Nisshinbo Micro Devices Inc Main Business
Table 110. Nisshinbo Micro Devices Inc Latest Developments
Table 111. Renesas Electronics Corporation Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 112. Renesas Electronics Corporation Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 113. Renesas Electronics Corporation Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 114. Renesas Electronics Corporation Main Business
Table 115. Renesas Electronics Corporation Latest Developments
Table 116. Analog Devices, Inc/ADI Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 117. Analog Devices, Inc/ADI Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 118. Analog Devices, Inc/ADI Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 119. Analog Devices, Inc/ADI Main Business
Table 120. Analog Devices, Inc/ADI Latest Developments
Table 121. Qualcomm/Atheros Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 122. Qualcomm/Atheros Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 123. Qualcomm/Atheros Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 124. Qualcomm/Atheros Main Business
Table 125. Qualcomm/Atheros Latest Developments
Table 126. Microchip Technology Inc. Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 127. Microchip Technology Inc. Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 128. Microchip Technology Inc. Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 129. Microchip Technology Inc. Main Business
Table 130. Microchip Technology Inc. Latest Developments
Table 131. Shanghai Belling Co., Ltd Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors

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Table 132. Shanghai Belling Co., Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 133. Shanghai Belling Co., Ltd Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 134. Shanghai Belling Co., Ltd Main Business
Table 135. Shanghai Belling Co., Ltd Latest Developments
Table 136. Beijing Xiaocheng Technology Stock Co., Ltd Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 137. Beijing Xiaocheng Technology Stock Co., Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 138. Beijing Xiaocheng Technology Stock Co., Ltd Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 139. Beijing Xiaocheng Technology Stock Co., Ltd Main Business
Table 140. Beijing Xiaocheng Technology Stock Co., Ltd Latest Developments
Table 141. HiSilicon Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 142. HiSilicon Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 143. HiSilicon Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 144. HiSilicon Main Business
Table 145. HiSilicon Latest Developments
Table 146. Risecomm Group Holdings Limited Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 147. Risecomm Group Holdings Limited Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 148. Risecomm Group Holdings Limited Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 149. Risecomm Group Holdings Limited Main Business
Table 150. Risecomm Group Holdings Limited Latest Developments
Table 151. Qingdao Topscomm Communication Inc Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 152. Qingdao Topscomm Communication Inc Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 153. Qingdao Topscomm Communication Inc Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)

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Table 154. Qingdao Topscomm Communication Inc Main Business
Table 155. Qingdao Topscomm Communication Inc Latest Developments
Table 156. Beijing Siliconductor Technology Co., Ltd Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 157. Beijing Siliconductor Technology Co., Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 158. Beijing Siliconductor Technology Co., Ltd Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 159. Beijing Siliconductor Technology Co., Ltd Main Business
Table 160. Beijing Siliconductor Technology Co., Ltd Latest Developments
Table 161. ClouderSemi Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 162. ClouderSemi Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 163. ClouderSemi Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 164. ClouderSemi Main Business
Table 165. ClouderSemi Latest Developments
Table 166. Triductor Technology (Suzhou) Inc Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 167. Triductor Technology (Suzhou) Inc Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 168. Triductor Technology (Suzhou) Inc Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 169. Triductor Technology (Suzhou) Inc Main Business
Table 170. Triductor Technology (Suzhou) Inc Latest Developments
Table 171. Eastsoft Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 172. Eastsoft Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 173. Eastsoft Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 174. Eastsoft Main Business
Table 175. Eastsoft Latest Developments
Table 176. Zhuhai Zhonghui Microelectronics Co., Ltd Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 177. Zhuhai Zhonghui Microelectronics Co., Ltd Power Line Communications

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(PLC) IC Product Portfolios and Specifications
Table 178. Zhuhai Zhonghui Microelectronics Co., Ltd Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 179. Zhuhai Zhonghui Microelectronics Co., Ltd Main Business
Table 180. Zhuhai Zhonghui Microelectronics Co., Ltd Latest Developments
Table 181. Aerospace CPower Sci. & Tech. (Chongqing) Ltd Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 182. Aerospace CPower Sci. & Tech. (Chongqing) Ltd Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 183. Aerospace CPower Sci. & Tech. (Chongqing) Ltd Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 184. Aerospace CPower Sci. & Tech. (Chongqing) Ltd Main Business
Table 185. Aerospace CPower Sci. & Tech. (Chongqing) Ltd Latest Developments
Table 186. UniComSemi Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 187. UniComSemi Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 188. UniComSemi Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 189. UniComSemi Main Business
Table 190. UniComSemi Latest Developments
Table 191. WUQI Microelectronics Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 192. WUQI Microelectronics Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 193. WUQI Microelectronics Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 194. WUQI Microelectronics Main Business
Table 195. WUQI Microelectronics Latest Developments
Table 196. SmartChip Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 197. SmartChip Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 198. SmartChip Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 199. SmartChip Main Business
Table 200. SmartChip Latest Developments

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Table 201. HiTrend Technology (Shanghai) Co., Ltd. Basic Information, Power Line Communications (PLC) IC Manufacturing Base, Sales Area and Its Competitors
Table 202. HiTrend Technology (Shanghai) Co., Ltd. Power Line Communications (PLC) IC Product Portfolios and Specifications
Table 203. HiTrend Technology (Shanghai) Co., Ltd. Power Line Communications (PLC) IC Sales (Million Pcs), Revenue ($ Million), Price (USD/K Unit) and Gross Margin (2021-2026)
Table 204. HiTrend Technology (Shanghai) Co., Ltd. Main Business
Table 205. HiTrend Technology (Shanghai) Co., Ltd. Latest Developments

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# List Of Figures

## LIST OF FIGURES

Figure 1. Picture of Power Line Communications (PLC) IC
Figure 2. Power Line Communications (PLC) IC Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Power Line Communications (PLC) IC Sales Growth Rate 2021-2032 (Million Pcs)
Figure 7. Global Power Line Communications (PLC) IC Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Power Line Communications (PLC) IC Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Power Line Communications (PLC) IC Sales Market Share by Country/Region (2025)
Figure 10. Power Line Communications (PLC) IC Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Broadband /High Speed PLC ICs
Figure 12. Product Picture of Narrowband PLC ICs
Figure 13. Global Power Line Communications (PLC) IC Sales Market Share by Type in 2026
Figure 14. Global Power Line Communications (PLC) IC Revenue Market Share by Type (2021-2026)
Figure 15. Product Picture of PLC Modem SoC
Figure 16. Product Picture of PLC Analog Front-End IC etc.
Figure 17. Global Power Line Communications (PLC) IC Sales Market Share by Product Form in 2026
Figure 18. Global Power Line Communications (PLC) IC Revenue Market Share by Product Form (2021-2026)
Figure 19. Product Picture of PLC+RF Dual-mode SoC
Figure 20. Product Picture of Single-mode PLC IC
Figure 21. Global Power Line Communications (PLC) IC Sales Market Share by Communication Method in 2026
Figure 22. Global Power Line Communications (PLC) IC Revenue Market Share by Communication Method (2021-2026)
Figure 23. Power Line Communications (PLC) IC Consumed in Smart Grid
Figure 24. Global Power Line Communications (PLC) IC Market: Smart Grid

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(2021-2026) & (Million Pcs)
Figure 25. Power Line Communications (PLC) IC Consumed in Smart Home
Figure 26. Global Power Line Communications (PLC) IC Market: Smart Home (2021-2026) & (Million Pcs)
Figure 27. Power Line Communications (PLC) IC Consumed in Energy Efficiency / Energy Management
Figure 28. Global Power Line Communications (PLC) IC Market: Energy Efficiency / Energy Management (2021-2026) & (Million Pcs)
Figure 29. Power Line Communications (PLC) IC Consumed in Intelligent Control
Figure 30. Global Power Line Communications (PLC) IC Market: Intelligent Control (2021-2026) & (Million Pcs)
Figure 31. Power Line Communications (PLC) IC Consumed in Smart City
Figure 32. Global Power Line Communications (PLC) IC Market: Smart City (2021-2026) & (Million Pcs)
Figure 33. Power Line Communications (PLC) IC Consumed in EV Charging Pile
Figure 34. Global Power Line Communications (PLC) IC Market: EV Charging Pile (2021-2026) & (Million Pcs)
Figure 35. Power Line Communications (PLC) IC Consumed in Others
Figure 36. Global Power Line Communications (PLC) IC Market: Others (2021-2026) & (Million Pcs)
Figure 37. Global Power Line Communications (PLC) IC Sale Market Share by Application (2025)
Figure 38. Global Power Line Communications (PLC) IC Revenue Market Share by Application in 2025
Figure 39. Power Line Communications (PLC) IC Sales by Company in 2025 (Million Pcs)
Figure 40. Global Power Line Communications (PLC) IC Sales Market Share by Company in 2025
Figure 41. Power Line Communications (PLC) IC Revenue by Company in 2025 ($ millions)
Figure 42. Global Power Line Communications (PLC) IC Revenue Market Share by Company in 2025
Figure 43. Global Power Line Communications (PLC) IC Sales Market Share by Geographic Region (2021-2026)
Figure 44. Global Power Line Communications (PLC) IC Revenue Market Share by Geographic Region in 2025
Figure 45. Americas Power Line Communications (PLC) IC Sales 2021-2026 (Million Pcs)
Figure 46. Americas Power Line Communications (PLC) IC Revenue 2021-2026 ($

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millions)
Figure 47. APAC Power Line Communications (PLC) IC Sales 2021-2026 (Million Pcs)
Figure 48. APAC Power Line Communications (PLC) IC Revenue 2021-2026 ($ millions)
Figure 49. Europe Power Line Communications (PLC) IC Sales 2021-2026 (Million Pcs)
Figure 50. Europe Power Line Communications (PLC) IC Revenue 2021-2026 ($ millions)
Figure 51. Middle East & Africa Power Line Communications (PLC) IC Sales 2021-2026 (Million Pcs)
Figure 52. Middle East & Africa Power Line Communications (PLC) IC Revenue 2021-2026 ($ millions)
Figure 53. Americas Power Line Communications (PLC) IC Sales Market Share by Country in 2025
Figure 54. Americas Power Line Communications (PLC) IC Revenue Market Share by Country (2021-2026)
Figure 55. Americas Power Line Communications (PLC) IC Sales Market Share by Type (2021-2026)
Figure 56. Americas Power Line Communications (PLC) IC Sales Market Share by Application (2021-2026)
Figure 57. United States Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 58. Canada Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 59. Mexico Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 60. Brazil Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 61. APAC Power Line Communications (PLC) IC Sales Market Share by Region in 2025
Figure 62. APAC Power Line Communications (PLC) IC Revenue Market Share by Region (2021-2026)
Figure 63. APAC Power Line Communications (PLC) IC Sales Market Share by Type (2021-2026)
Figure 64. APAC Power Line Communications (PLC) IC Sales Market Share by Application (2021-2026)
Figure 65. China Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 66. Japan Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)

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Figure 67. South Korea Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 68. Southeast Asia Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 69. India Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 70. Australia Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 71. China Taiwan Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 72. Europe Power Line Communications (PLC) IC Sales Market Share by Country in 2025
Figure 73. Europe Power Line Communications (PLC) IC Revenue Market Share by Country (2021-2026)
Figure 74. Europe Power Line Communications (PLC) IC Sales Market Share by Type (2021-2026)
Figure 75. Europe Power Line Communications (PLC) IC Sales Market Share by Application (2021-2026)
Figure 76. Germany Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 77. France Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 78. UK Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 79. Italy Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 80. Russia Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 81. Middle East & Africa Power Line Communications (PLC) IC Sales Market Share by Country (2021-2026)
Figure 82. Middle East & Africa Power Line Communications (PLC) IC Sales Market Share by Type (2021-2026)
Figure 83. Middle East & Africa Power Line Communications (PLC) IC Sales Market Share by Application (2021-2026)
Figure 84. Egypt Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 85. South Africa Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 86. Israel Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($

+357 96 030922
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millions)
Figure 87. Turkey Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 88. GCC Countries Power Line Communications (PLC) IC Revenue Growth 2021-2026 ($ millions)
Figure 89. Manufacturing Cost Structure Analysis of Power Line Communications (PLC) IC in 2026
Figure 90. Manufacturing Process Analysis of Power Line Communications (PLC) IC
Figure 91. Industry Chain Structure of Power Line Communications (PLC) IC
Figure 92. Channels of Distribution
Figure 93. Global Power Line Communications (PLC) IC Sales Market Forecast by Region (2027-2032)
Figure 94. Global Power Line Communications (PLC) IC Revenue Market Share Forecast by Region (2027-2032)
Figure 95. Global Power Line Communications (PLC) IC Sales Market Share Forecast by Type (2027-2032)
Figure 96. Global Power Line Communications (PLC) IC Revenue Market Share Forecast by Type (2027-2032)
Figure 97. Global Power Line Communications (PLC) IC Sales Market Share Forecast by Application (2027-2032)
Figure 98. Global Power Line Communications (PLC) IC Revenue Market Share Forecast by Application (2027-2032)

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