

Power Line Communication Market Report by Frequency (Narrowband (3 kHz to 500 kHz), Broadband (Greater Than 500 kHz)), Voltage (Low, Medium, High), Offering (Hardware, Software, Services), Modulation Technique (Single Carrier Modulation, Multi Carrier Modulation, Spread Spectrum Modulation, and Others), Application (Energy Management and Smart Grid, Indoor Networking), Vertical (Residential, Commercial, Industrial), and Region 2024-2032

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Abstracts

The global power line communication (PLC) market size reached US\$ 10.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 23.0 Billion by 2032, exhibiting a growth rate (CAGR) of 9.2% during 2024-2032.

Power line communication (PLC) refers to a communication technology that is used for the transmission of data over the existing power-grid infrastructure. It acts as a reliable communication and data transmission medium for various Internet of Things (IoT) and smart grid applications. It is primarily used for powering electronic devices and to retrieve/control data through them. There are two kinds of PLC, namely narrowband and broadband. The narrowband PLC works at lower frequencies and lower data rates but has a more extended range. On the other hand, broadband PLC works at higher frequencies and higher data rates but is used in shorter-range applications.

A significant increase in the establishment of smart grids across the globe is one of the

key factors driving the growth of the market. Smart grids involve the integration of renewable energy resources with the electricity supply chain through PLCs. Increasing utilization of these solutions for communicating with devices at remote locations is also providing a boost to the market growth. With the extension of the electricity distribution network, there has been a substantial increase in the adoption of PLC technology to cater to a broader geographical area. In line with this, the growing utilization of these solutions for lighting control applications in both rural and urban areas is acting as another growth-inducing factor. PLC solutions are widely used for both indoor and outdoor lightings, such as on streets, roadways, tunnels, parking, parks and other commercial and industrial complexes. Other factors, including the increasing investments in renewable energy facilities, along with rising government investments in the deployment of smart grids, extensive research and development (R&D) in the power sector and hyper-urbanization across the globe, are projected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global power line communication market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on frequency, voltage, offering, modulation technique, application and vertical.

Breakup by Frequency:

Narrowband (3 kHz to 500 kHz)

Broadband (Greater Than 500 kHz)

Breakup by Voltage:

Low

Medium

High

Breakup by Offering:

Hardware

Software

Services

Breakup by Modulation Technique:

Single Carrier Modulation
Multi Carrier Modulation
Spread Spectrum Modulation
Others

Breakup by Application:

Energy Management and Smart Grid
Indoor Networking

Breakup by Vertical:

Residential
Commercial
Industrial

Breakup by Region:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being ABB, AMETEK Inc., Belkin, Broadcom Inc., Cypress Semiconductor, D-Link Corporation, General Electric, Hubbell Power Systems Inc., Landis+Gyr, Maxim Integrated, Netgear, Schneider Electric, Siemens, TP-Link Technologies, Zyxel Communications, etc.

Key Questions Answered in This Report

1. What was the size of the global Power Line Communication (PLC) market in 2023?
2. What is the expected growth rate of the global Power Line Communication (PLC) market during 2024-2032?
3. What has been the impact of COVID-19 on the global Power Line Communication (PLC) market?
4. What are the key factors driving the global Power Line Communication (PLC) market?
5. What is the breakup of the global Power Line Communication (PLC) market based on the frequency?
6. What is the breakup of the global Power Line Communication (PLC) market based on the application?
7. What is the breakup of the global Power Line Communication (PLC) market based on the vertical?
8. What are the key regions in the global Power Line Communication (PLC) market?
9. Who are the key players/companies in the global Power Line Communication (PLC) market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL POWER LINE COMMUNICATION MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY FREQUENCY

- 6.1 Narrowband (3 kHz to 500 kHz)
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Broadband (Greater Than 500 kHz)
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY VOLTAGE

7.1 Low

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Medium

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 High

7.3.1 Market Trends

7.3.2 Market Forecast

8 MARKET BREAKUP BY OFFERING

8.1 Hardware

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Software

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Services

8.3.1 Market Trends

8.3.2 Market Forecast

9 MARKET BREAKUP BY MODULATION TECHNIQUE

9.1 Single Carrier Modulation

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Multi Carrier Modulation

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Spread Spectrum Modulation

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Others

9.4.1 Market Trends

9.4.2 Market Forecast

10 MARKET BREAKUP BY APPLICATION

10.1 Energy Management and Smart Grid

10.1.1 Market Trends

10.1.2 Market Forecast

10.2 Indoor Networking

10.2.1 Market Trends

10.2.2 Market Forecast

11 MARKET BREAKUP BY VERTICAL

11.1 Residential

11.1.1 Market Trends

11.1.2 Market Forecast

11.2 Commercial

11.2.1 Market Trends

11.2.2 Market Forecast

11.3 Industrial

11.3.1 Market Trends

11.3.2 Market Forecast

12 MARKET BREAKUP BY REGION

12.1 North America

12.1.1 United States

12.1.1.1 Market Trends

12.1.1.2 Market Forecast

12.1.2 Canada

12.1.2.1 Market Trends

12.1.2.2 Market Forecast

12.2 Asia Pacific

12.2.1 China

12.2.1.1 Market Trends

12.2.1.2 Market Forecast

12.2.2 Japan

12.2.2.1 Market Trends

12.2.2.2 Market Forecast

12.2.3 India

12.2.3.1 Market Trends

- 12.2.3.2 Market Forecast
- 12.2.4 South Korea
 - 12.2.4.1 Market Trends
 - 12.2.4.2 Market Forecast
- 12.2.5 Australia
 - 12.2.5.1 Market Trends
 - 12.2.5.2 Market Forecast
- 12.2.6 Indonesia
 - 12.2.6.1 Market Trends
 - 12.2.6.2 Market Forecast
- 12.2.7 Others
 - 12.2.7.1 Market Trends
 - 12.2.7.2 Market Forecast
- 12.3 Europe
 - 12.3.1 Germany
 - 12.3.1.1 Market Trends
 - 12.3.1.2 Market Forecast
 - 12.3.2 France
 - 12.3.2.1 Market Trends
 - 12.3.2.2 Market Forecast
 - 12.3.3 United Kingdom
 - 12.3.3.1 Market Trends
 - 12.3.3.2 Market Forecast
 - 12.3.4 Italy
 - 12.3.4.1 Market Trends
 - 12.3.4.2 Market Forecast
 - 12.3.5 Spain
 - 12.3.5.1 Market Trends
 - 12.3.5.2 Market Forecast
 - 12.3.6 Russia
 - 12.3.6.1 Market Trends
 - 12.3.6.2 Market Forecast
 - 12.3.7 Others
 - 12.3.7.1 Market Trends
 - 12.3.7.2 Market Forecast
- 12.4 Latin America
 - 12.4.1 Brazil
 - 12.4.1.1 Market Trends
 - 12.4.1.2 Market Forecast

12.4.2 Mexico

12.4.2.1 Market Trends

12.4.2.2 Market Forecast

12.4.3 Others

12.4.3.1 Market Trends

12.4.3.2 Market Forecast

12.5 Middle East and Africa

12.5.1 Market Trends

12.5.2 Market Breakup by Country

12.5.3 Market Forecast

13 SWOT ANALYSIS

13.1 Overview

13.2 Strengths

13.3 Weaknesses

13.4 Opportunities

13.5 Threats

14 VALUE CHAIN ANALYSIS

15 PORTERS FIVE FORCES ANALYSIS

15.1 Overview

15.2 Bargaining Power of Buyers

15.3 Bargaining Power of Suppliers

15.4 Degree of Competition

15.5 Threat of New Entrants

15.6 Threat of Substitutes

16 PRICE INDICATORS

17 COMPETITIVE LANDSCAPE

17.1 Market Structure

17.2 Key Players

17.3 Profiles of Key Players

17.3.1 ABB

17.3.1.1 Company Overview

- 17.3.1.2 Product Portfolio
- 17.3.1.3 Financials
- 17.3.1.4 SWOT Analysis
- 17.3.2 AMETEK Inc.
 - 17.3.2.1 Company Overview
 - 17.3.2.2 Product Portfolio
 - 17.3.2.3 Financials
 - 17.3.2.4 SWOT Analysis
- 17.3.3 Belkin
 - 17.3.3.1 Company Overview
 - 17.3.3.2 Product Portfolio
- 17.3.4 Broadcom Inc.
 - 17.3.4.1 Company Overview
 - 17.3.4.2 Product Portfolio
 - 17.3.4.3 Financials
- 17.3.5 Cypress Semiconductor
 - 17.3.5.1 Company Overview
 - 17.3.5.2 Product Portfolio
 - 17.3.5.3 Financials
 - 17.3.5.4 SWOT Analysis
- 17.3.6 D-Link Corporation
 - 17.3.6.1 Company Overview
 - 17.3.6.2 Product Portfolio
 - 17.3.6.3 Financials
- 17.3.7 General Electric
 - 17.3.7.1 Company Overview
 - 17.3.7.2 Product Portfolio
 - 17.3.7.3 Financials
 - 17.3.7.4 SWOT Analysis
- 17.3.8 Landis+Gyr
 - 17.3.8.1 Company Overview
 - 17.3.8.2 Product Portfolio
 - 17.3.8.3 Financials
- 17.3.9 Hubbell Power Systems Inc.
 - 17.3.9.1 Company Overview
 - 17.3.9.2 Product Portfolio
- 17.3.10 Maxim Integrated
 - 17.3.10.1 Company Overview
 - 17.3.10.2 Product Portfolio

- 17.3.10.3 Financials
- 17.3.10.4 SWOT Analysis
- 17.3.11 NETGEAR
 - 17.3.11.1 Company Overview
 - 17.3.11.2 Product Portfolio
 - 17.3.11.3 Financials
 - 17.3.11.4 SWOT Analysis
- 17.3.12 Schneider Electric
 - 17.3.12.1 Company Overview
 - 17.3.12.2 Product Portfolio
- 17.3.13 Siemens
 - 17.3.13.1 Company Overview
 - 17.3.13.2 Product Portfolio
 - 17.3.13.3 Financials
 - 17.3.13.4 SWOT Analysis
- 17.3.14 TP-Link Technologies
 - 17.3.14.1 Company Overview
 - 17.3.14.2 Product Portfolio
- 17.3.15 Zyxel Communications
 - 17.3.15.1 Company Overview
 - 17.3.15.2 Product Portfolio

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