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Global OFDM-based Power Line Communication Chips for Smart Meters Market Growth 2024-2030

https://marketpublishers.com/r/GBE371912DF4EN.html
Date: July 2024
Pages: 92
Price: US$ 3,660.00 (Single User License)
ID: GBE371912DF4EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

OFDM-based Power Line Communication (PLC) chips for smart meters are integrated circuits designed to facilitate communication between smart meters and the utility company via power lines. OFDM stands for Orthogonal Frequency Division Multiplexing, a modulation technique that divides the available bandwidth into multiple subchannels, each carrying a part of the data.

These chips essentially enable smart meters to transmit data over power lines using OFDM modulation. They're crucial components in modern smart grid systems, allowing utilities to remotely collect energy consumption data, manage the grid more efficiently, and enable features like demand response and time-of-use pricing.

Key features of OFDM-based PLC chips for smart meters may include:

High-speed data transmission: OFDM allows for high data rates, enabling efficient transmission of metering data over power lines.

Robustness: OFDM is known for its robustness against interference and noise, making it suitable for communication over power lines, which are often noisy environments.

Adaptability: OFDM can dynamically allocate subchannels based on the channel conditions, allowing the system to adapt to changes in the power line environment.

Compatibility: OFDM-based PLC chips are designed to comply with relevant communication standards, ensuring interoperability with other smart grid devices and

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systems.

Low power consumption: Smart meters often have stringent power requirements, so PLC chips designed for smart meters typically prioritize low power consumption to prolong battery life or minimize energy usage.

Overall, OFDM-based PLC chips play a vital role in enabling reliable and efficient communication between smart meters and utility companies, contributing to the advancement of smart grid technology and energy management.

The global OFDM-based Power Line Communication Chips for Smart Meters market size is projected to grow from US$ million in 2024 to US$ million in 2030; it is expected to grow at a CAGR of %from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “OFDM-based Power Line Communication Chips for Smart Meters Industry Forecast” looks at past sales and reviews total world OFDM-based Power Line Communication Chips for Smart Meters sales in 2023, providing a comprehensive analysis by region and market sector of projected OFDM-based Power Line Communication Chips for Smart Meters sales for 2024 through 2030. With OFDM-based Power Line Communication Chips for Smart Meters sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world OFDM-based Power Line Communication Chips for Smart Meters industry.

This Insight Report provides a comprehensive analysis of the global OFDM-based Power Line Communication Chips for Smart Meters 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 OFDM-based Power Line Communication Chips for Smart Meters portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global OFDM-based Power Line Communication Chips for Smart Meters market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for OFDM-based Power Line Communication Chips for Smart Meters 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

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inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global OFDM-based Power Line Communication Chips for Smart Meters.

United States market for OFDM-based Power Line Communication Chips for Smart Meters is estimated to increase from US$ million in 2023 to US$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for OFDM-based Power Line Communication Chips for Smart Meters is estimated to increase from US$ million in 2023 to US$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for OFDM-based Power Line Communication Chips for Smart Meters is estimated to increase from US$ million in 2023 to US$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key OFDM-based Power Line Communication Chips for Smart Meters players cover Semtech, Renesas Electronics, STMicroelectronics, Qingdao Eastsoft Communication Technology, Hi-Trend Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of OFDM-based Power Line Communication Chips for Smart Meters market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-phase OFDM-based Power Line Communication Chips

Three-phase OFDM-based Power Line Communication Chips

Segmentation by Application:

Residential Smart Meter

Commercial Smart Meter

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- Industrial Smart Meter
- Municipal Smart Meter

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK

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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.

Semtech

Renesas Electronics

STMicroelectronics

Qingdao Eastsoft Communication Technology

Hi-Trend Technology

Leaguer (Shenzhen) Microelectronics

Beijing Smartchip Microelectronics Technology

Triductor Technology

Hisilicon

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Key Questions Addressed in this Report

What is the 10-year outlook for the global OFDM-based Power Line Communication Chips for Smart Meters market?

What factors are driving OFDM-based Power Line Communication Chips for Smart Meters market growth, globally and by region?

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

How do OFDM-based Power Line Communication Chips for Smart Meters market opportunities vary by end market size?

How does OFDM-based Power Line Communication Chips for Smart Meters break out by Type, by Application?

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