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Power over Ethernet Market Research Report - Global Forecast to 2030

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Description:

Global Power Over Ethernet Market Overview:

Power Over Ethernet Market Size was valued at USD 1 billion in 2021. The power over ethernet market industry is projected to grow from USD 1.2 billion in 2022 to USD 3.3 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 16.20% during the forecast period (2022 - 2030). The increased use of PoE-compatible devices is expected to be a major market driver in the power over ethernet (PoE) market during the forecast period. Furthermore, an increase in the demand for ethernet is expected to propel the market forward.

Global Power Over Ethernet Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Power Over Ethernet Market Trends

- ### Adoption of cutting-edge technologies like the Internet of Things (IoT) and smart buildings to propel the market growth

According to market dynamics, Power over Ethernet systems are becoming more widely used in a variety of industries thanks to the installation of IoT technology, which is expected to fuel market expansion. The need for PoE solutions has been rising due to the increasing number of connected devices that produce more light, power, and data through converging networks in IoT-enabled infrastructure. PoE also makes it possible to integrate smart sensors into the network at any location without the need for electrical outlets. In order to power and connect access points, VoIP networks, IP surveillance cameras, smart lighting luminaires, feature-rich video IP phones, other smart devices, and sensors in smart buildings, PoE enables the use of a single cable without the involvement of a human. PoE solutions are widely utilised in sectors due to their high efficiency and ability to lower system costs, which is what is driving the market. Thus, this factor is driving the market CAGR.

Furthermore, PoE is used in smart grids to send data and power by a single line to field devices that aid in the efficient use of space and data communication technologies. For sophisticated technologies and services to be supported by smart grids, network infrastructure needs to be strategically upgraded. Many nations have concentrated on making investments in the smart grid, which is expected to drive the industry. For instance, Ameren, one of the biggest utilities in the Midwest of the United States, has budgeted $7.6 billion for smart grid technologies over a five-year period. Growing PoE use and investments in smart grid infrastructure are expected to boost market expansion.

Additionally, building automation is rapidly adopting PoE-based solutions due to its flexibility, dependability, scalability, and cost effectiveness due to the reduction of personnel and cabling infrastructure expenditures. With the help of PoE, advanced sensing technologies, such as those used to count people or monitor air quality, can be connected with lighting applications that use the data network. The use of Potin sensors, networked lighting, and other building controls is required by the growing need for intelligent buildings. For instance, the digital nature of light and low-voltage DC power enable the lighting use of Pot. With the installation of Pot, it is possible to place low-voltage devices far from AC power sources and to provide low-voltage DC power, data for phone systems and closed-circuit television (CCTV) cameras, and low-voltage DC power. Thus, it is anticipated that this aspect will accelerate power over ethernet market revenue globally.

Power Over Ethernet Market Segment Insights:

Power Over Ethernet Types Insights

The power over ethernet market segmentation has been segmented by types into power sourcing equipment controllers & ICs and powered device controllers & ICs. The powered device controllers & ICs segment dominated the market growth in 2021 and is projected to be the faster-growing segment during the forecast period, 2022-2030. To help power sourcing equipment source the proper quantity of power to PDs through Ethernet cables, power devices are utilised to offer an accurate signature and various classifications.

Figure 2: Power Over Ethernet Market by Types, 2021 & 2030 (USD Billion)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Power Over Ethernet Power to Port Insights

The power over ethernet market segmentation, based on power to port, up to 15.4W, up to 30W, up to 60W and up to 100W. The up to 30W segment dominated the power over ethernet market revenue in 2021 and is projected to be the faster-growing segment during the forecast period, 2022-2030. The growing adoption of Power over Ethernet technology for security applications is benefiting the overall market. PoE Plus is a more sophisticated version of PoE. It can provide approximately 34.2 W of power to powered devices. Furthermore, the scope of Ethernet cable applications is expanding, which is expected to contribute to market growth.

Power Over Ethernet Application Insights

The power over ethernet market data, based on application, security & access control, connectivity, LED lighting & control and infotainment. The LED lighting & control segment dominated the power over ethernet market revenue in 2021 and is projected to be the faster-growing segment during the forecast period, 2022-2030. One of the important innovations for the field of smart technologies in lighting is the use of pot. For a blooming desirable and appropriate lighting impact, the smart lighting solutions merge the cutting-edge LED luminaires with digital controllers.

Power Over Ethernet End User Insights

The power over ethernet industry, based on End User, Residential, Commercial, and Industrial. According to the market forecast, the commercial segment dominated the market in 2021 and is projected to be the faster-growing segment during the forecast period, 2022-2030. Office complexes, medical facilities, and stores are all included in the commercial sector. Concerns over security and communication in business buildings are growing, which is encouraging the installation of PoE-based VoIP and IP cameras for effective operations.

Power Over Ethernet Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific, and the Rest of the World. North America power over ethernet market accounted for USD 0.4 billion in 2021 and is expected to exhibit a 43.20% CAGR during the study period. The majority of the key businesses in the sector are located here, which is the main justification. The existence of several information technology (IT) and telecom enterprises is another factor promoting rapid growth in this market. As a result, demand for PoE controllers and ICs is increasing quickly.

Further, the major countries studied in the market report are: The U.S., Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 3: POWER OVER ETHERNET MARKET SHARE BY REGION 2021 (%)

POWER OVER ETHERNET MARKET SHARE BY REGION 2021

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe power over ethernet market is expected to grow at a significant CAGR from 2022 to 2030. The European Union is likewise experiencing robust growth. The European Union's most economically powerful nations are propelling growth. Germany and the UK are two of these. The two industries that are driving expansion in this area are the healthcare and automobile sectors. Further, the UK power over ethernet market held the largest market share, and the Germany power over ethernet market was the fastest-growing market in the region.

Asia Pacific power over ethernet market accounts for the second-fastest growing market share. The Asia Pacific market is now mostly untapped despite having a sizable population and moderately high potential, particularly in its urban centers. Long term market growth may be facilitated by the development of smart cities, higher living standards, and rising incomes in this region. Moreover, China power over ethernet market held the largest market share, and the India power over ethernet market was the fastest-growing market in this region.

Power Over Ethernet Key Market Players & Competitive Insights

Major market players are spending a lot on R&D to increase their product lines, which will help the power over ethernet industry grow even more. Market participants are also taking various strategic initiatives to grow their worldwide footprint, including new product launches, contractual agreements, mergers and acquisitions, increased investments, market developments and collaboration with other organizations. According to the market competitive landscape, players in the industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market industry.

One of the primary business strategies manufacturers adopt in the power over ethernet industry to benefit clients and expand the sector is manufacturing locally to reduce operating costs. In recent years, power over ethernet industry has provided medicine with some of the most significant benefits. The power over ethernet market major player such as Axis Communications AB (Sweden), Maxim Integrated Products Inc. (U.S.), Texas Instruments Inc. (U.S.), STMicroelectronics N.V. (Switzerland), Linear Technology Corp. (U.S.), Broadcom Ltd. (U.S.), Microsemi Corp. (U.S.), ON Semiconductor (U.S.), Silicon Laboratories Inc. (U.S.) and Monolithic Power Systems Inc. (U.S.).

Silicon Laboratories, Inc. is a fabless multinational technology firm that creates and markets semiconductors, other silicon products, and software for use in Internet of Things infrastructure around the world. In 2020, it introduced three new integrated circuits (ICs) for PSE and PD products: the Si3471 PSE controller, the Si3474 quad Ethernet port PSE controller, and the Si34071 single-chip PD solution. These three new ICs simplify and lower the cost of adding 90 W

of power to powered devices (PD) as well as to power sourcing equipment (PSE).

Also, STMicroelectronics N.V., also known as ST or STMicro, is a multinational Dutch company that specializes in technology with French and Italian roots. Its headquarters are in Plan-les-Ouates, which is close to Geneva, Switzerland, and it is listed on the French stock exchange. The largest semiconductor contract manufacturing and design business in Europe is ST. In 2019, Power over Ethernet (PoE) controllers for networked devices has been introduced by STMicroelectronics. These devices adhere to the IEEE 802.3af specification for powered devices (PD), which provides all the necessary control capabilities to allow a PD to request and draw power from a PoE network. Power over Ethernet market share is expected to increase with the introduction of standardized PoE solutions, propelling the market.

Key companies in the power over ethernet market includes

- Axis Communications AB (Sweden)
- Maxim Integrated Products Inc. (U.S.)
- Texas Instruments Inc. (U.S.)
- STMicroelectronics N.V. (Switzerland)
- Linear Technology Corp. (U.S.)
- Broadcom Ltd. (U.S.)
- Microsemi Corp. (U.S.)
- ON Semiconductor (U.S.)
- Silicon Laboratories Inc. (U.S.)
- Monolithic Power Systems Inc. (U.S.)

Power Over Ethernet Industry Developments

Jun 2023: ClearOne, a leading provider of conferencing, collaboration, and network streaming solutions, introduced its powerful new DIALOG UVHF wireless microphone system that offers professional-quality audio-video conferencing and sound reinforcement for any size room. The new system combines class-leading flexibility, power over ethernet (PoE) simplicity, Dante technology, and up to 350 usable frequencies.

Feb 2023: Legrand, a leading global specialist in electrical & digital building infrastructures, and Superior Essex Communications, a leading communications cable manufacturer in North America, announced a partnership to launch the new nCompass Systems Extended Distance cabling system. The new innovative and dynamic product is designed to meet the requirements of deployments of high-power power over ethernet (Hi-PoE) on an IP network.

Nov 2022: Analog Devices, Inc. announced the first-ever Single-pair Power over Ethernet (SPoE) Power Sourcing Equipment (PSE) and Power Device (PD) solutions for smart building and factory automation. New long-reach, single-pair SPoE solutions can help customers drive greater intelligence into building and factory automation, as well as other applications at the edge of traditional networks.

Oct 2022: Emerson launched its first PoE Coriolis flow measurement device for the food & beverage, life sciences, and chemical industries. Emerson's first power-over-ethernet transmitter supports customers' upgrades and retrofits. With a small form factor and advanced software, the Micro Motion 1600 Coriolis Transmitter is a cost-effective, scalable PoE solution to help improve process efficiency.

Sept 2022: eero, an Amazon company, launched a new range of Power-over-Ethernet (PoE) devices for professional installers and businesses. The eero PoE 6 and eero PoE Gateway solutions can be easily installed and use wired infrastructure to deliver fast, reliable wi-fi throughout homes and businesses. eero for Pro Installers and eero for Business are two new services that simplify wi-fi installation, setup, and management for professional installers and small businesses.

July 2022: The Ethernet Alliance, a global group dedicated to the continued success & Ethernet advancement, along with UL Solutions, a global leader in applied safety science, announced the availability of Ethernet Alliance's PoE Certification Gen 2 testing in Taiwan. Manufacturers of PoE devices can pursue Gen 1 & Gen 2 certification via third-party testing labs in Asia and North America and at their facilities with Ethernet Alliance-approved equipment.

July 2022: The Ethernet Alliance, a organisation committed to the growth and progress of Ethernet, and UL Solutions, a pioneer in applied safety science, recently announced that the Ethernet Alliance's PoE Certification Gen

2 testing is now available in Taiwan. Manufacturers of PoE devices can pursue Gen 1 and Gen 2 certification at their facilities using Ethernet Alliance-approved hardware or through independent testing labs in Asia and North America.

April 2022: The Insight Managed WiFi 6 AX3000 Dual-band Multi-Gig PoE Access Point, the newest member of NETGEAR, Inc.'s managed wireless access point portfolio, was unveiled. NETGEAR, Inc. is a leading supplier of networking technologies that enable organisations of all sizes (WAX615).

Power Over Ethernet Market Segmentation:

Power Over Ethernet Types Outlook (USD Billion, 2018-2030)

- Power Sourcing Equipment Controllers & ICs
- Powered Device Controllers & ICs

Power Over Ethernet Power to Port Outlook (USD Billion, 2018-2030)

- Up to 15.4W
- Up to 30W
- Up to 60W
- Up to 100W

Power Over Ethernet Application Outlook (USD Billion, 2018-2030)

- Security & Access Control
- Connectivity
- LED Lighting & Control
- Infotainment
- Energy drinks

Power Over Ethernet End User Outlook (USD Billion, 2018-2030)

- Residential
- Commercial
- Industrial

Power Over Ethernet Regional Outlook (USD Billion, 2018-2030)

- North America

- US
- Canada

- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe

- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific

- Rest of the World
  - Middle East
  - Africa
  - Latin America

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