

Power Over Ethernet Controller Market By Type (PoE Power Sourcing Equipment (PSE) Controller, PoE Powered Devices (PD) Controller), By Power Standard (IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt), By Applications (Commercial, Industrial, Residential): Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The power over ethernet controller market was valued at \$1,262.1 million in 2023 and is estimated to reach \$3,686.1 million by 2033, exhibiting a CAGR of 11.7% from 2024 to 2033.

A power over ethernet (PoE) controller is an electronic component or chipset that manages the delivery of electrical power and data over Ethernet cables to networked devices. PoE technology eliminates the need for separate power cables, enabling the simultaneous transmission of power and data to devices like IP cameras, wireless access points, and VoIP phones through a single Ethernet cable. The PoE controller ensures compliance with relevant standards, for example, e.g., IEEE 802.3af, 802.3at, or 802.3bt, provides power management and control, and protects against issues such as overload or short circuits.

Rapid proliferation of Internet of Things (IoT) devices, such as smart sensors, security cameras, and connected lighting systems, has increased the demand for efficient power and data management solutions, driving the adoption of PoE controllers. According to a study published by IoT Analytics—a leading global provider of market insights and strategic business intelligence for IoT, AI, Cloud, Edge, and Industry 4.0—the number of connected IoT devices is projected to grow from 16.6 billion in 2023 to 18.8 billion by

the end of 2024, with an expected increase to 40 billion by 2030. This significant growth underscores the escalating demand for efficient power and data solutions, such as those provided by PoE controllers. In addition, heavy investments in smart buildings and smart city projects by government and private organizations significantly contribute toward the market growth. This is attributed to the fact that these projects rely on interconnected devices powered by PoE technology to enable energy efficiency, automation, and centralized control. Moreover, surge in demand for wireless access points in enterprises, educational institutions, and public spaces has led to an increased need for PoE controllers to power these devices and facilitate seamless connectivity, thereby augmenting the market growth. Furthermore, rise in need for enhanced security in commercial, residential, and industrial spaces has boosted the deployment of IP cameras, which rely on PoE for power and connectivity, thus increasing the demand for PoE controllers. However, high initial investment required for PoE-enabled infrastructure hampers the market growth. The adoption of PoE technology is further hindered by limited awareness, lack of technical expertise, and slower infrastructure upgrades. On the contrary, the development of advanced PoE standards, such as IEEE 802.3bt, which enables higher power delivery up to 90W, has opened new avenue for powering high-wattage devices like LED lighting and industrial equipment.

The power over ethernet controller market is segmented into type, power standard, application, and region. By type, the market is divided into PoE power sourcing equipment (PSE) controller and PoE powered devices (PD) controller. On the basis of power standard, it is segregated into IEEE 802.3a, IEEE 802.3at, and IEEE 802.3bt. Depending on application, it is classified into commercial, industrial, and residential. Region wise, it is analyzed across North America (the U.S., Canada, and Mexico), Europe (UK, Germany, France, Italy, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, Taiwan, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa)

Key Findings

By type, the PoE power sourcing equipment (PSE) controller segment dominated the market in 2023.

On the basis of power standard, the IEEE 802.3at segment exhibited the highest growth in 2023.

Depending on application, the commercial segment led the power-over ethernet controller market in 2023.

Region wise, Asia-Pacific emerged as the most lucrative market for the power over ethernet controllers in 2023; however, North America is expected to grow at the highest CAGR from 2024 to 2033.

Competitive Analysis

The key players in the power over ethernet market are Microchip Technology Inc., Analog Devices, Inc., STMicroelectronics, Semiconductor Components Industries, LLC., Broadcom Inc., Cisco Systems, Inc, Texas Instruments Incorporated, Belden Inc., Monolithic Power Systems, Inc., and Kinetic Technologies. These players have adopted strategies such as product launch, partnership, and acquisition to strengthen their foothold in the global market.

Key Benefits for Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the power over ethernet controller market analysis from 2023 to 2033 to identify the prevailing power over ethernet controller market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the power over ethernet controller market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global power over ethernet controller market trends, key players, market segments, application areas, and market

growth strategies.

Additional benefits you will get with this purchase are:

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New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Historic market data

Key player details (including location, contact details, supplier/vendor network

etc. in excel format)

Market share analysis of players at global/region/country level

SWOT Analysis

Key Market Segments

By Type

PoE Power Sourcing Equipment (PSE) Controller

PoE Powered Devices (PD) Controller

By Power Standard

IEEE 802.3af

IEEE 802.3at

IEEE 802.3bt

By Applications

Industrial

Residential

Commercial

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Taiwan

Rest of Europe

LAMEA

Latin Ameirca

Middle East

Africa

Key Market Players

Microchip Technology Inc.

Texas Instruments Incorporated

Semiconductor Components Industries, LLC.

Broadcom Inc.

Belden Inc.

Monolithic Power Systems, Inc.

Kinetic Technologies

Analog Devices, Inc

STMicroelectronics

Cisco Systems, Inc.

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