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Power Over Ethernet (PoE) Chipset Market: Current Analysis and Forecast (2025-2033)

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Abstracts

The global Power over Ethernet (PoE) Chipset market was valued at USD 816.56 million in 2024 and is expected to grow at a strong CAGR of around 10.8% during the forecast period (2025-2033F), driven by increasing demand for cost-efficient network infrastructure in commercial buildings.

Power over Ethernet (PoE) Chipset Market Analysis

The Power over Ethernet (PoE) chipset is experiencing growth due to the adoption of technologies in organizations that make the network infrastructure easier and less expensive to install. PoE chipsets are used to deliver power and data over a single Ethernet cable to devices. This has opened the door to the adoption of PoE chipsets in devices such as IP cameras, wireless access points, VoIP phones, and smart lighting. As top companies invest more in smart buildings, connected workplaces, and IoT-driven networks, the demand for effective PoE chipset solutions is likely to increase.

Global Power over Ethernet (PoE) Chipset Market Trends

This section discusses the key market trends that are influencing the various segments of the global Power over Ethernet (PoE) Chipset market, as found by our team of research experts.

Growing Need for High-Power Ethernet Infrastructure

The use of high-power PoE technologies to serve advanced connected devices is one of the major trends defining the market of the PoE chipset. The contemporary enterprise networks are incorporating high-performance technology like AI-enabled video

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surveillance devices, interactive displays, and smart building management systems, which require higher power delivery through Ethernet infrastructure. This is prompting manufacturers to develop chipsets that can support higher power standards, greater efficiency, and better thermal management to meet the evolving needs of next-generation networking environments.

Power over Ethernet (PoE) Chipset Industry Segmentation

This section provides an analysis of the key trends in each segment of the global Power over Ethernet (PoE) Chipset market report, along with forecasts at the global, regional, and country levels for 2025-2033.

The Power Sourcing Equipment (PSE) Chipset Segment Dominates the Global Power over Ethernet (PoE) Chipset Market

Based on the type category, the market is categorized into PoE power sourcing equipment (PSE) chipsets and PoE powered devices (PD) chipsets. The PSE chipset is a market leader because it offers centralized power management and distribution to devices, which helps reduce operational and infrastructure costs. As more businesses utilize PoE networking for smart buildings, security systems, and Wi-Fi access points, manufacturers of PSE chipsets are showing increased demand for more advanced solutions. For instance, in 2025, Planet Technology USA introduced the NMS-AIoT Application Server. This server was built to handle and coordinate thousands of Power over Ethernet (PoE) devices, all while adhering to the IEC 62443 cybersecurity certification requirements.

The IP/Network Cameras Segment Dominates the Global Power over Ethernet (PoE) Chipset Market.

Based on the device category, the market is segmented into IP/network cameras, VoIP phone, Ethernet switch & injector, wireless radio access point, proximity sensor, Led lighting, and others. Among these, the highest market share is with the IP/network cameras category. The market is growing due to the increased use of IP-based networking devices. PoE technology is becoming popular for devices like IP cameras, VoIP phones, wireless access points, and network sensors, which are powered and transmit data over a single Ethernet cable. The need for easier installation, lower infrastructure costs, and better network management is driving organizations to adopt and implement advanced Power over Ethernet (PoE) chipset solutions more quickly.

The Asia-Pacific region is the fastest-growing region in the Global Power over Ethernet (PoE) Chipset Market

The Asia-Pacific region is developing as the most developed PoE chipset market, with the help of rapid urbanization, the development of digital infrastructure, and increased investments in smart cities. The region is witnessing the active implementation of sophisticated surveillance solutions, enterprise networks, and building connectivity solutions by various countries, which all highly depend on PoE-enabled devices. Besides, the high concentration of electronics manufacturing centers and the growing use of IoT technologies are also contributing to the further acceleration of the market growth in the region.

China held a Dominant share of the Asia-Pacific Power over Ethernet (PoE) Chipset Market in 2024

China is a major market for PoE chipsets because of the vast investment in digital infrastructure, smart cities, and intelligent security in China. Some of the key applications of PoE technology in the country have been the deployment of IP surveillance networks, wireless connectivity solutions, and intelligent building management systems. Furthermore, China's robust electronics manufacturing base, coupled with the continuous evolution of networking gear, should keep the demand for Power over Ethernet (PoE) chipsets quite healthy.

Power over Ethernet (PoE) Chipset Industry Competitive Landscape

The global Power over Ethernet (PoE) Chipset market is competitive, with several global and international market players. The key players are adopting different growth strategies to enhance their market presence, such as partnerships, agreements, collaborations, geographical expansions, and mergers and acquisitions.

Top Power over Ethernet (PoE) Chipset Market Companies

Some of the major players in the market are Marvell, Realtek Semiconductor Corp, ASIX Electronics Corporation, Delta Electronics, Inc., Texas Instruments Incorporated, Analog Devices, Inc., Microchip Technology Inc., Broadcom, STMicroelectronics, Semiconductor Components Industries, LLC.

Recent Developments in the Power over Ethernet (PoE) Chipset Market

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In 2025, MaxLinear entered a strategic collaboration with HiSource to integrate MaxLinear Ethernet switch SoCs into next-generation PoE switches for enterprise networking and industrial applications.

On March 7, 2024, the Ethernet Alliance emphasized the importance of PoE certification in ensuring interoperability and preventing costly recalls. A recent survey revealed that 93% of system integrators prefer IEEE 802.3-compliant PoE devices, highlighting the industry's strong demand for standardization.

On February 27, 2025, at MWC 2025, Metanoia unveiled the MT5824 chipset, a 5G SoC with 90% lower power consumption, 80% BOM cost reduction, and a 70% smaller footprint than FPGA-based solutions, revolutionizing O-RU efficiency with its future-proof SDR architecture and open-source SDK.

Frequently Asked Questions (FAQ)

Q1: What is the global Power over Ethernet (PoE) Chipset market’s current market size and growth potential?

Ans: The global Power over Ethernet (PoE) Chipset market was valued at USD 816.56 million in 2024 and is expected to grow at a CAGR of around 10.8% from 2025 to 2033. Market growth is driven by increasing adoption of IP surveillance systems, wireless access points, smart building infrastructure, and IoT-enabled enterprise networks that require efficient power and data transmission through a single Ethernet cable.

Q2: Which segment has the largest share of the global Power over Ethernet (PoE) Chipset market by standard category?

Ans: The IEEE 802.3af Standard segment holds a major share of the global PoE chipset market due to its wide adoption in devices such as IP cameras, VoIP phones, and wireless access points. Its compatibility with existing Ethernet infrastructure and cost-effective deployment continue to drive strong market demand.

Q3: What are the driving factors for the growth of the global Power over Ethernet (PoE) Chipset market?

Ans: Major growth drivers of the PoE chipset market include:

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Rapid expansion of smart buildings and connected infrastructure

Increasing deployment of IP surveillance and security systems

Rising adoption of IoT devices and wireless networking equipment

Q4: What are the emerging technologies and trends in the global Power over Ethernet (PoE) Chipset market?

Ans: Key emerging trends influencing the PoE chipset market include:

Adoption of high-power PoE standards such as IEEE 802.3bt

Integration of PoE technology in smart lighting and building automation systems

Rising use of AI-enabled security cameras and IoT devices

Q5: What are the key challenges in the global Power over Ethernet (PoE) Chipset market?

Ans: Key challenges in the Power over Ethernet (PoE) Chipset market include:

Power limitations and heat management issues in high-power PoE applications

Compatibility challenges across different PoE standards

Q6: Which region dominates the global Power over Ethernet (PoE) Chipset market?

Ans: North America currently dominates the global PoE chipset market due to strong adoption of advanced networking infrastructure, IoT technologies, and smart building solutions. The presence of leading semiconductor companies and growing investments in enterprise networking, data centers, and surveillance systems further support regional market growth.

Q7: Who are the key competitors in the global Power over Ethernet (PoE) Chipset market?

Ans: Top players in the Power over Ethernet (PoE) Chipset industry include:

Marvell

Realtek Semiconductor Corp

ASIX Electronics Corporation

Delta Electronics, Inc.

Texas Instruments Incorporated

Analog Devices, Inc.

Microchip Technology Inc.

Broadcom

STMicroelectronics

Semiconductor Components Industries, LLC

Q8: How will the expansion of smart buildings and IoT infrastructure influence the demand for PoE chipsets?

Ans: The rapid development of smart buildings, intelligent lighting systems, IP surveillance networks, and connected IoT devices is expected to significantly increase demand for PoE chipsets. These chipsets enable simultaneous power and data transmission through Ethernet cables, reducing installation costs and simplifying network architecture for modern smart infrastructure.

Q9: What growth strategies should companies adopt to strengthen their position in the global PoE chipset market?

Ans: Companies can strengthen their market position by developing high-power PoE solutions, investing in energy-efficient semiconductor technologies, and expanding product portfolios for IoT and smart infrastructure applications. Strategic partnerships with network equipment manufacturers, system integrators, and smart building solution providers can further support long-term growth and competitive advantage.

Reasons to Buy the Power over Ethernet (PoE) Chipset Market Report:

- The study includes market sizing and forecasting analysis confirmed by authenticated key industry experts.
- The report briefly reviews overall industry performance at a glance.
- The report covers an in-depth analysis of prominent industry peers, primarily focusing on key business financials, type portfolios, expansion strategies, and recent developments.
- Detailed examination of drivers, restraints, key trends, and opportunities prevailing in the industry.
- The study comprehensively covers the market across different segments.
- Deep dive regional-level analysis of the industry.

Customization Options:

The global Power over Ethernet (PoE) Chipset market can further be customized as per the requirements or any other market segment. Besides this, UnivDatos understands that you may have your own business needs; hence, feel free to contact us to get a report that completely suits your requirements.

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