

Global PoE Power Switch ICs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PoE Power Switch ICs market size was valued at US\$ 905 million in 2025 and is forecast to a readjusted size of US\$ 1125 million by 2032 with a CAGR of 3.0% during review period.

PoE power switch ICs are key power management devices used in Power over Ethernet (PoE) systems to enable controlled power delivery over Ethernet cables alongside data transmission. These ICs typically integrate detection, classification, current limiting, overvoltage and thermal protection, and hot-swap control functions to ensure compliance with IEEE PoE standards and safe, stable power management. PoE power switch ICs are widely deployed in power sourcing equipment (PSE) such as Ethernet switches, as well as in powered devices (PD), serving as core control elements in network-based power delivery systems.

In 2025, the global production of PoE power switch ICs was 419 million units, with an average price of US\$2.1 per unit.

The upstream of PoE power switch ICs includes wafer foundries (8-inch and 12-inch), high-voltage BCD process platform providers, EDA and IP suppliers, power MOSFET wafer manufacturers, isolation components and magnetic material suppliers, OSAT companies and passive component manufacturers (resistors, capacitors, TVS diodes). As PoE devices handle 48V nominal voltage and higher transient levels, core costs are concentrated in high-voltage power device design, wafer fabrication and thermally optimized packaging. Automotive-grade or industrial-grade products incur higher qualification and reliability testing costs.

Downstream applications are concentrated in networking and Ethernet-powered equipment, including Ethernet switches (PSE side), IP cameras, wireless access points, VoIP phones, access control systems, smart building terminals, industrial Ethernet devices and IoT nodes. With widespread adoption of IEEE 802.3af/at/bt standards?particularly 802.3bt (PoE++) supporting up to 90W class power?demand for high-power and high-efficiency PoE switch ICs is increasing significantly. Enterprise network upgrades and smart surveillance deployments are key growth drivers.

Industry trends emphasize higher power density, lower Rds(on), improved efficiency, comprehensive protection features (overcurrent, overvoltage, thermal and short-circuit protection), multi-port centralized management and integration with digital control interfaces such as I2C or PMBus. Some devices integrate detection, classification and power management functions to deliver highly integrated PSE or PD solutions. As industrial Ethernet and smart building applications expand, demand for wide-temperature and high-reliability products is rising.

Gross margins typically range from 35% to 55%. Standard commercial PoE products generally achieve margins of 35%?45%, while high-power 802.3bt or industrial long-life products may reach 45%?55%. Growth drivers include enterprise network upgrades, expansion of video surveillance, broader wireless coverage and industrial digital transformation, while constraints involve network equipment replacement cycles, intensified price competition and customer concentration risks. Overall, this is a specialized segment within communication power management semiconductors with moderate-to-high technical barriers and relatively stable profitability.

This report is a detailed and comprehensive analysis for global PoE Power Switch ICs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PoE Power Switch ICs market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global PoE Power Switch ICs market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global PoE Power Switch ICs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global PoE Power Switch ICs market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for PoE Power Switch ICs

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global PoE Power Switch ICs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Texas Instruments, Analog Devices, Microchip Technology, STMicroelectronics, onsemi, Skyworks Solutions, Monolithic Power Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

PoE Power Switch ICs market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PSE-Side Power Switch IC

PD Interface Power IC

Integrated PSE Controller With Power Switch IC

Market segment by PoE Standard

IEEE 802.3af?PoE?

IEEE 802.3at?PoE+?

IEEE 802.3bt?PoE++?

Market segment by Number of Ports

Single Port

Multi-Port

Market segment by Application

Ethernet Switches And Network Power Systems

Wireless Access Points

Network Cameras And Security Systems

IP Phones And Conferencing Systems

Others

Major players covered

Texas Instruments

Analog Devices

Microchip Technology

STMicroelectronics

onsemi

Skyworks Solutions

Monolithic Power Systems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PoE Power Switch ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PoE Power Switch ICs, with price, sales quantity, revenue, and global market share of PoE Power Switch ICs from 2021 to 2026.

Chapter 3, the PoE Power Switch ICs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the PoE Power Switch ICs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PoE Power Switch ICs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PoE Power Switch ICs.

Chapter 14 and 15, to describe PoE Power Switch ICs sales channel, distributors, customers, research findings and conclusion.

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