

Global Single-Port Pse Controllers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G9C280B86184EN.html>

Date: April 2026

Pages: 115

Price: US\$ 4,480.00 (Single User License)

ID: G9C280B86184EN

Abstracts

The global Single-Port Pse Controllers market size is expected to reach \$ 26.12 million by 2032, rising at a market growth of 2.9% CAGR during the forecast period (2026-2032).

Single-port PSE controllers are power-side control integrated circuits used in Power over Ethernet (PoE) systems, responsible for detection, classification, power delivery control, current limiting, and protection for a single Ethernet port. These controllers typically comply with IEEE 802.3 standards and are widely used in PoE designs requiring independent port control, precise power management, and high system reliability.

The production volume of single-port PSE controllers is projected to reach 17.1 million units in 2025, with an average price of \$1.2 per unit.

A single-port PSE controller is a key integrated circuit in Power over Ethernet systems, responsible for detecting, classifying, powering, and protecting a powered device on a single Ethernet port, in compliance with IEEE 802.3af, 802.3at, and 802.3bt standards. The upstream includes analog and mixed-signal IC design, wafer foundry services, packaging and testing, as well as peripheral power MOSFET and protection component suppliers, with chip architecture, power efficiency, and protocol compatibility being the most critical factors. Downstream applications focus on Ethernet switches, wireless access points, IP cameras, VoIP phones, access control and building automation systems, and industrial Ethernet devices, where equipment manufacturers emphasize power class support, port safety, reliability, and overall bill-of-material cost.

The development trend of single-port PSE controllers moves toward support for higher

power levels, increased integration, and improved energy efficiency, while strengthening multi-standard compatibility, intelligent power management, and remote monitoring capabilities. Driving factors include continued growth in PoE-powered endpoints, accelerated development of smart cities and intelligent buildings, dense deployment of security and wireless networks, and rising demand for simplified cabling and centralized power delivery. Key challenges include intense market competition and pricing pressure, thermal and reliability design complexity associated with high-power PoE, and substitution pressure from highly integrated multi-port PSE solutions in some applications. In terms of gross margin, single-port PSE controllers belong to a mature segment of the power management IC market, typically achieving gross margins in the range of 40% to 60%, with higher margins for suppliers offering high integration, strong customer relationships, and differentiated features.

This report studies the global Single-Port Pse Controllers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Port Pse Controllers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single-Port Pse Controllers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Port Pse Controllers total production and demand, 2021-2032, (K Units)

Global Single-Port Pse Controllers total production value, 2021-2032, (USD Million)

Global Single-Port Pse Controllers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Single-Port Pse Controllers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single-Port Pse Controllers domestic production, consumption, key domestic manufacturers and share

Global Single-Port Pse Controllers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single-Port Pse Controllers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single-Port Pse Controllers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single-Port Pse Controllers market based

on the following parameters - company overview, production, value, 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, Skyworks, Monolithic Power Systems, Silvertel, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single-Port Pse Controllers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Single-Port Pse Controllers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Port Pse Controllers Market, Segmentation by Type:

IEEE 802.3af

IEEE 802.3at

IEEE 802.3bt

Global Single-Port Pse Controllers Market, Segmentation by Power Supply Method:

Mode A

Mode B

4-Pair Power

Global Single-Port Pse Controllers Market, Segmentation by Power:

Less than 30 W

30-60 W

60-90 W

More than 90 W

Global Single-Port Pse Controllers Market, Segmentation by Application:

PoE Switch Ports

PoE Power Injectors

IP Camera Power Systems

Wireless Access Point Power Supply

Industrial Ethernet Equipment

Other

Companies Profiled:

Texas Instruments

Analog Devices

Microchip

Skyworks

Monolithic Power Systems

Silvertel

Key Questions Answered:

1. How big is the global Single-Port Pse Controllers market?
2. What is the demand of the global Single-Port Pse Controllers market?
3. What is the year over year growth of the global Single-Port Pse Controllers market?
4. What is the production and production value of the global Single-Port Pse Controllers market?
5. Who are the key producers in the global Single-Port Pse Controllers market?
6. What are the growth factors driving the market demand?

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