

Global Single Pair Ethernet (SPE) Connector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Pair Ethernet (SPE) Connector market size is expected to reach \$ 1175 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Single Pair Ethernet (SPE) connectors enable the transmission of data and power (PoDL) over a single pair of copper wires, reducing cabling weight, space, and costs in industrial IoT, automation, and automotive applications. Global sales of Single Pair Ethernet (SPE) connectors are projected to reach 400 million units by 2025, with an average price of approximately \$2 per unit.

The main market drivers include:

Industrial IoT and Smart Manufacturing Upgrades

Traditional Ethernet, due to its heavy and costly cables, struggles to meet the miniaturization and densification needs of field-level devices. SPE connectors, with their 'one-wire data + power transmission' characteristic, eliminate gateways and converters, enabling direct IP communication from sensors to the cloud, reducing wiring complexity and maintenance costs.

Evolution of Electronic Architecture in New Energy Vehicles

Centralized electronic and electrical architectures are driving a surge in the number of in-vehicle connection nodes. SPE connectors, with their lightweight, high reliability, and support for high-speed data transmission, have become a core component for interconnecting cameras, radars, and domain controllers, facilitating the implementation

of autonomous driving and smart cockpit functions.

Policy Support and Accelerated Domestic Substitution

The National 14th Five-Year Plan for Smart Manufacturing Development explicitly promotes the integration of TSN and SPE technologies. Coupled with policies guiding the independent control of key basic components, domestic manufacturers are gradually replacing imported products through technological innovation and cost optimization, driving market expansion and the improvement of the industrial chain ecosystem.

This report studies the global Single Pair Ethernet (SPE) Connector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Pair Ethernet (SPE) Connector 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 Pair Ethernet (SPE) Connector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Pair Ethernet (SPE) Connector total production and demand, 2021-2032, (Units)

Global Single Pair Ethernet (SPE) Connector total production value, 2021-2032, (USD Million)

Global Single Pair Ethernet (SPE) Connector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Single Pair Ethernet (SPE) Connector consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Single Pair Ethernet (SPE) Connector domestic production, consumption, key domestic manufacturers and share

Global Single Pair Ethernet (SPE) Connector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Single Pair Ethernet (SPE) Connector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Single Pair Ethernet (SPE) Connector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Single Pair Ethernet (SPE) Connector 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 Amphenol, Weidmüller, Phoenix Contact, KYOCERA AVX, Rosenberger, SINBON, Interplex, UDE Corp, Yamaichi, TE, 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 Pair Ethernet (SPE) Connector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Pair Ethernet (SPE) Connector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Pair Ethernet (SPE) Connector Market, Segmentation by Type:

IP20 Connector

IP67 Connector

Other

Global Single Pair Ethernet (SPE) Connector Market, Segmentation by Technology:

10Mbps

100Mbps

1Gbps

Global Single Pair Ethernet (SPE) Connector Market, Segmentation by Functional Category:

Industrial Automation Connect

Automotive Network Connect

Building Automation Connect

Other

Global Single Pair Ethernet (SPE) Connector Market, Segmentation by Application:

Building and Industrial Automation

Automobile Industry

Railway Industry

Other

Companies Profiled:

Amphenol

Weidmüller

Phoenix Contact

KYOCERA AVX

Rosenberger

SINBON

Interplex

UDE Corp

Yamaichi

TE

Harting

Key Questions Answered:

1. How big is the global Single Pair Ethernet (SPE) Connector market?
2. What is the demand of the global Single Pair Ethernet (SPE) Connector market?
3. What is the year over year growth of the global Single Pair Ethernet (SPE) Connector market?
4. What is the production and production value of the global Single Pair Ethernet (SPE) Connector market?
5. Who are the key producers in the global Single Pair Ethernet (SPE) Connector market?
6. What are the growth factors driving the market demand?

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