

Global Fieldbus Option Card Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G8C2D7256E5BEN.html>

Date: June 2026

Pages: 155

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

ID: G8C2D7256E5BEN

Abstracts

The global Fieldbus Option Card market size is expected to reach \$ 13878 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

A Fieldbus Option Card is an add-on communication interface module installed in industrial controllers (PLC, motion controllers, robot controllers, or drives) that enables connectivity to specific fieldbus networks such as PROFINET, EtherCAT, PROFIBUS, CANopen, DeviceNet, etc. It allows real-time data exchange between controllers, sensors, actuators, and other industrial devices in a distributed automation system. In 2025, global Fieldbus Option Card production reached approximately 45.53 million units, with an average global market price of around US\$ 185 per unit. Annual production capacity is 49.80 million units. Gross Profit Margin: 38.6%. The industry chain of Fieldbus Option Cards sits within the broader industrial automation ecosystem. Upstream includes semiconductor components such as communication ASICs (e.g., netX, FPGA), PHY chips, connectors, PCB materials, and industrial-grade isolation devices. Midstream is dominated by industrial automation manufacturers that integrate these components into PLCs, motion controllers, servo drives, and industrial PCs as fieldbus option cards or embedded communication modules. Downstream demand comes from discrete manufacturing, robotics, CNC machinery, and process industries where real-time deterministic communication is required for distributed control systems. Fieldbus Option Cards represent a transitional technology layer between traditional industrial fieldbus systems and modern industrial Ethernet architectures. While integration is gradually shifting toward embedded multi-protocol SoCs, demand for modular communication cards remains strong in retrofit systems, high-end motion control, and heterogeneous factory environments. In my view, the value of this product category is not only in hardware, but increasingly in protocol compatibility, software stack integration, and ecosystem lock-in.

This report studies the global Fieldbus Option Card production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fieldbus Option Card 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 Fieldbus Option Card that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fieldbus Option Card total production and demand, 2021-2032, (K Units)

Global Fieldbus Option Card total production value, 2021-2032, (USD Million)

Global Fieldbus Option Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fieldbus Option Card consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fieldbus Option Card domestic production, consumption, key domestic manufacturers and share

Global Fieldbus Option Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fieldbus Option Card production by Communication Protocol, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fieldbus Option Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fieldbus Option Card 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 Siemens, Rockwell Automation, Beckhoff Automation, Bosch Rexroth, Mitsubishi Electric, Schneider Electric, Omron Corporation, Yaskawa Electric, ABB, B&R Industrial Automation, 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 Fieldbus Option Card 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 Communication Protocol, 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 Fieldbus Option Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fieldbus Option Card Market, Segmentation by Communication Protocol:

EtherCAT Option Card

PROFINET Option Card

PROFIBUS DP Option Card

CANopen Option Card

DeviceNet Option Card

CC-Link Option Card

Modbus TCP/RTU Option Card

POWERLINK Option Card

Global Fieldbus Option Card Market, Segmentation by Installation Position:

Controller-integrated Card

Drive-mounted Card

PLC-slot Card

External Communication Unit

Global Fieldbus Option Card Market, Segmentation by Data Rate:

Low-speed Fieldbus Card: 1 Mbps

Medium-speed Fieldbus Card: 1–100 Mbps

High-speed Fieldbus Card: >100 Mbps / Gbps

Global Fieldbus Option Card Market, Segmentation by Application:

Industrial

Logistics & Warehousing

Energy & Power

Transportation

Others

Companies Profiled:

Siemens

Rockwell Automation

Beckhoff Automation

Bosch Rexroth

Mitsubishi Electric

Schneider Electric

Omron Corporation

Yaskawa Electric

ABB

B&R Industrial Automation

Hilscher Gesellschaft F?r Systemautomation

HMS Networks

Advantech

Nexcom

AAEON

Inovance Technology

Estun Automation

Supcon Technology

Hollysys Automation Technologies

Moxa

Key Questions Answered:

1. How big is the global Fieldbus Option Card market?
2. What is the demand of the global Fieldbus Option Card market?
3. What is the year over year growth of the global Fieldbus Option Card market?
4. What is the production and production value of the global Fieldbus Option Card market?
5. Who are the key producers in the global Fieldbus Option Card market?
6. What are the growth factors driving the market demand?

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