

Global EtherCAT Communication Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD5FB5364E6BEN.html>

Date: May 2026

Pages: 132

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

ID: GD5FB5364E6BEN

Abstracts

The global EtherCAT Communication Module market size is expected to reach \$ 4114 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

An EtherCAT Communication Module is a modular hardware component designed to facilitate high-speed data transfer and device connectivity within an EtherCAT network. It manages the exchange of real-time control data between the master controller and slave devices, ensuring low-latency, high-precision, and reliable signal transmission in industrial automation systems. The module typically integrates Ethernet interfaces, processors, and protocol handling functions and can connect to control systems via slots or bus interfaces. In 2025, global EtherCAT communication module production reached approximately 1.14 M units, with an average global market price of around US\$ 1,800 per unit. Annual production capacity is approximately 1.2 M units. Gross Profit Margin: 35%. The EtherCAT communication module is a key component in the industrial automation supply chain. Upstream, it relies on semiconductor chips, industrial-grade Ethernet controllers, PCBs, and connectors. Midstream, manufacturers like Beckhoff, Siemens, and Omron integrate these components into EtherCAT modules, providing both master and slave units. Downstream, these modules are widely used in factory automation, robotics, CNC machines, process control, and smart manufacturing systems, enabling real-time, low-latency communication between controllers and devices. The growth of Industry 4.0 and industrial IoT is driving higher demand for these modules, making them a critical part of modern industrial infrastructure. EtherCAT communication modules are not only technologically sophisticated but also strategically important for automation companies. Their high-speed, deterministic communication capability allows precise coordination of machines, which is essential for advanced robotics and multi-axis motion control. Given the rising trend of smart factories and

automation in emerging markets, investing in or developing EtherCAT-compatible solutions offers long-term value. Companies that can innovate in module integration, robustness, and cost-effectiveness are likely to gain a competitive edge in the industrial automation market.

This report studies the global EtherCAT Communication Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EtherCAT Communication Module 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 EtherCAT Communication Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EtherCAT Communication Module total production and demand, 2021-2032, (K Units)

Global EtherCAT Communication Module total production value, 2021-2032, (USD Million)

Global EtherCAT Communication Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global EtherCAT Communication Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: EtherCAT Communication Module domestic production, consumption, key domestic manufacturers and share

Global EtherCAT Communication Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global EtherCAT Communication Module production by Interface Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global EtherCAT Communication Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global EtherCAT Communication Module 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 Beckhoff Automation GmbH & Co. KG, Siemens AG, OMRON Corporation, Rockwell Automation, Inc., Schneider Electric SE, Bosch Rexroth AG, Mitsubishi Electric Corporation, Yaskawa Electric Corporation, ABB Ltd., Advantech Co., Ltd., 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 EtherCAT Communication Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Interface 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 EtherCAT Communication Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EtherCAT Communication Module Market, Segmentation by Interface Type:

Fiber Optic Interface Module

Copper Ethernet Interface Module

Wireless Interface Module

Global EtherCAT Communication Module Market, Segmentation by Functional Purpose:

Master Communication Module

Slave Communication Module

Gateway Communication Module

Global EtherCAT Communication Module Market, Segmentation by Mounting Type:

Plug-in Module

DIN Rail Mounted Module

Panel Mounted Module

Global EtherCAT Communication Module Market, Segmentation by Application:

Industrial Automation

Network Communication

Others

Companies Profiled:

Beckhoff Automation GmbH & Co. KG

Siemens AG

OMRON Corporation

Rockwell Automation, Inc.

Schneider Electric SE

Bosch Rexroth AG

Mitsubishi Electric Corporation

Yaskawa Electric Corporation

ABB Ltd.

Advantech Co., Ltd.

National Instruments Corporation

SICK AG

Baumer Holding AG

Lenze SE

Festo AG & Co. KG

Key Questions Answered:

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

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