

**Industrial Ethernet Market by Offering (Hardware, Software, Services), Protocol (EtherNet/IP, EtherCAT, PROFINET, POWERLINK, SERCOS III, and Others), End User (Automotive and Transportation, Electrical and Electronics, Pharmaceutical and Medical Devices, Aerospace and Defense, Energy and Power, Oil and Gas, Food and Beverages, and Others), and Region 2023-2028**

Market Report | 2023-06-14 | 147 pages | IMARC Group

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**Report description:**

The global industrial ethernet market size reached US\$ 10.70 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 16.34 Billion by 2028, exhibiting a growth rate (CAGR) of 7.20% during 2023-2028. The increasing usage in different industry verticals, rising awareness about the benefits of ordering food products online, and the growing demand for higher bandwidth connections represent some of the key factors driving the market.

Industrial ethernet (IE) is designed and implemented for use in industrial environments that involve the usage of standard ethernet protocols and technologies and incorporates additional features and considerations to meet the unique requirements of industrial applications. It is a network infrastructure that enables the integration of industrial automation systems, such as programmable logic controllers (PLCs), human-machine interfaces (HMIs), sensors, actuators, and other control devices. It offers high-speed data transfer rates at 100 Mbps or 1 Gbps, which enables the rapid exchange of large volumes of data between devices and systems. It also facilitates the exchange of data and information between different devices and systems, which enables enhanced process visibility, control, and automation to improve operational efficiency, reduce downtime, optimize resource utilization, and enhance productivity. It incorporates security features to protect industrial systems and data from unauthorized access, tampering, and cyber threats.

Industrial Ethernet Market Trends:

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There is an increase in the adoption of IE in different industry verticals for real time control and monitoring complex processes. It also allows the easy exchange of critical data between distributed control systems (DCS), supervisory control and data acquisition (SCADA) systems, and various instruments and actuators. This represents one of the major factors strengthening the market growth around the world. Moreover, the rising use of IE in the transportation and logistics sectors for real-time tracking, monitoring, and controlling of vehicles, warehouses, and logistics systems is favoring the growth of the market. It also enables efficient communication between vehicle tracking systems, RFID (radio-frequency identification) readers, and inventory management systems. In addition, IE finds application in the food and beverage (F&B) industry to facilitate easy communication between production equipment, control systems, and manufacturing execution systems (MES) to ensure compliance with regulatory standards and optimize production efficiency. This, along with the growing awareness among individuals about the benefits of ordering food products through online portals, is influencing the market positively. Besides this, the emerging trend of automation, increasing demand for higher bandwidth connections, and the rising traction of Industry 4.0 are some of the other factors propelling the growth of the market. Furthermore, the growing number of data centers is creating a positive outlook for the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global industrial ethernet market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on offering, protocol, and end user.

#### Offering Insights:

- Hardware
- Software
- Services

The report has provided a detailed breakup and analysis of the industrial ethernet market based on the offering. This includes hardware, software, and services. According to the report, hardware represented the largest segment.

#### Protocol Insights:

- EtherNet/IP
- EtherCAT
- PROFINET
- POWERLINK
- SERCOS III
- Others

A detailed breakup and analysis of the industrial ethernet market based on the protocol has also been provided in the report. This includes EtherNet/IP, EtherCAT, PROFINET, POWERLINK, SERCOS III, and others. According to the report, PROFINET accounted for the largest market share.

#### End User Insights:

- Automotive and Transportation
- Electrical and Electronics
- Pharmaceutical and Medical Devices
- Aerospace and Defense

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Energy and Power  
Oil and Gas  
Food and Beverages  
Others

The report has provided a detailed breakup and analysis of the industrial ethernet market based on the end user. This includes automotive and transportation, electrical and electronics, pharmaceutical and medical devices, aerospace and defense, energy and power, oil and gas, food and beverages, and others. According to the report, automotive and transportation represented the largest segment.

#### Regional Insights:

North America  
United States  
Canada  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others) was the largest market for industrial ethernet. Some of the factors driving the Europe industrial ethernet market included expansion of IT industry, integration of advanced technologies, extensive research and development (R&D) activities, etc.

#### Competitive Landscape

The report has also provided a comprehensive analysis of the competitive landscape in the global industrial ethernet market. Detailed profiles of all major companies have also been provided. Some of the companies covered include ABB Ltd., Advantech

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Co. Ltd., Beckhoff Automation, Belden Inc., Cisco Systems Inc., Honeywell International Inc., Moxa Inc., OMRON Corporation, Rockwell Automation Inc., Schneider Electric SE, Siemens AG, Weidmuller GmbH & Co KG, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the repor

#### Key Questions Answered in This Report:

How has the global industrial ethernet market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global industrial ethernet market?

What is the impact of each driver, restraint, and opportunity on the global industrial ethernet market?

What are the key regional markets?

Which countries represent the most attractive industrial ethernet market?

What is the breakup of the market based on the offering?

Which is the most attractive offering in the industrial ethernet market?

What is the breakup of the market based on the protocol?

Which is the most attractive protocol in the industrial ethernet market?

What is the breakup of the market based on the end user?

Which is the most attractive end user?

What is the competitive structure of the global industrial ethernet market?

Who are the key players/companies in the global industrial ethernet market?

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