

# Industrial Ethernet Market Size, Share & Trends Analysis Report By Type (Hardware, Software), By Protocol (EtherCAT, EtherNet/IP), By End-use (Oil & Gas, Energy & Power), By Region, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/I27465BE3204EN.html>

Date: September 2025

Pages: 150

Price: US\$ 4,950.00 (Single User License)

ID: I27465BE3204EN

## Abstracts

### Industrial Ethernet Market Summary

The global industrial ethernet market size was estimated at USD 12.30 billion in 2024 and is projected to reach USD 24.63 billion by 2033, growing at a CAGR of 8.1% from 2025 to 2033. The market is experiencing significant growth, driven by the increasing demand for robust and reliable networking solutions in industrial settings.

As manufacturing processes become more automated and interconnected, the need for high-speed, low-latency communication networks has intensified. Industrial ethernet provides a scalable and flexible infrastructure that supports real-time data exchange and integration with advanced technologies such as IoT and Industry 4.0. This evolution is fueled by the rise of smart factories, where seamless data flow between machines and control systems is crucial. The shift from traditional fieldbus systems to Ethernet-based networks also contributes to market expansion, as Ethernet offers superior bandwidth and network management capabilities. Furthermore, the growing emphasis on predictive maintenance and data analytics in industrial operations is pushing companies to invest in Ethernet solutions that can handle large volumes of data. As a result, the market is poised for robust growth, with increasing adoption across various sectors.

The market is also gaining traction in the energy, transportation, and utilities industries. These sectors require reliable and secure communication networks to manage complex

operations and ensure safety. For instance, Ethernet networks are used in the energy sector to monitor and control power grids, enabling real-time data acquisition and response to system anomalies. Similarly, in transportation, Ethernet solutions facilitate the management of traffic control systems and support advanced applications like vehicle-to-everything (V2X) communication. The expansion of smart grid technologies and the push towards sustainable energy solutions further drive demand for industrial Ethernet. Moreover, as more industries adopt digital transformation strategies, the need for standardized and interoperable network solutions becomes more critical. This trend creates new opportunities for Ethernet vendors to develop innovative solutions customized to diverse industrial applications.

The increasing need for cybersecurity in industrial networks is also propelling the market. With the rise in cyber threats targeting critical infrastructure, companies prioritize secure communication protocols and robust network architectures. Industrial Ethernet solutions are being enhanced with advanced security features such as encryption, intrusion detection, and secure access controls. This focus on cybersecurity is critical as industrial systems become more interconnected, increasing the potential attack surface. Adopting secure Ethernet solutions helps protect sensitive data and ensures the integrity and availability of industrial processes. Regulatory compliance and industry standards, such as the IEC 62443 series of standards for industrial cybersecurity, are further driving the adoption of secure Ethernet networks. As companies strive to safeguard their operations against cyber threats, the demand for secure industrial Ethernet solutions is expected to grow significantly.

## Global Industrial Ethernet Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2033. For this study, Grand View Research has segmented the global industrial ethernet market report based on type, protocol, end use, and region:

Type Outlook (Revenue, USD Million, 2018 - 2033)

Hardware

Software

Services

Protocol Outlook (Revenue, USD Million, 2018 - 2033)

EtherCAT

EtherNet/IP

PROFINET

POWERLINK

SERCOS III

CC-Link IE

End Use Outlook (Revenue, USD Million, 2018 - 2033)

Automotive & Transportation

Oil & Gas

Energy & Power

Food & Beverages

Chemical & Fertilizer

Electrical & Electronics

Aerospace & Defense

Others

Regional Outlook (Revenue, USD Million, 2018 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

KSA

UAE

South Africa

**This report can be delivered to the clients within 5 Business Days**

## Contents

### **CHAPTER 1. METHODOLOGY AND SCOPE**

- 1.1. Market Segmentation and Scope
- 1.2. Market Definition
- 1.3. Research Methodology
  - 1.3.1. Information Procurement
  - 1.3.2. Information or Data Analysis
  - 1.3.3. Market Formulation & Data Visualization
  - 1.3.4. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
  - 1.4.1. List of Data Sources

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

### **CHAPTER 3. INDUSTRIAL ETHERNET MARKET VARIABLES, TRENDS, & SCOPE**

- 3.1. Market Introduction/Lineage Outlook
- 3.2. Market Dynamics
  - 3.2.1. Market Driver Analysis
  - 3.2.2. Market Restraint Analysis
  - 3.2.3. Industry Challenge
- 3.3. Industrial Ethernet market Analysis Tools
  - 3.3.1. Porter's Analysis
  - 3.3.2. PESTEL Analysis

### **CHAPTER 4. INDUSTRIAL ETHERNET MARKET: TYPE ESTIMATES & TREND ANALYSIS**

- 4.1. Segment Dashboard
- 4.2. Industrial Ethernet market: Type Movement Analysis, 2024 & 2033 (USD Million)
- 4.3. Hardware
  - 4.3.1. Hardware Market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 4.4. Software

- 4.4.1. Software Market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 4.5. Services
  - 4.5.1. Services Market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## **CHAPTER 5. INDUSTRIAL ETHERNET MARKET: PROTOCOL ESTIMATES & TREND ANALYSIS**

- 5.1. Segment Dashboard
- 5.2. Industrial Ethernet market: Protocol Movement Analysis, 2024 & 2033 (USD Million)
- 5.3. EtherCAT
  - 5.3.1. EtherCAT Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 5.4. EtherNet/IP
  - 5.4.1. EtherNet/IP Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 5.5. PROFINET
  - 5.5.1. PROFINET Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 5.6. POWERLINK
  - 5.6.1. POWERLINK Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 5.7. SERCOS III
  - 5.7.1. SERCOS III Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 5.8. CC-Link IE
  - 5.8.1. CC-Link IE Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## **CHAPTER 6. INDUSTRIAL ETHERNET MARKET: END USE ESTIMATES & TREND ANALYSIS**

- 6.1. Segment Dashboard
- 6.2. Industrial Ethernet market: End Use Movement Analysis, 2024 & 2033 (USD Million)
- 6.3. Automotive & Transportation
  - 6.3.1. Automotive & Transportation Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)
- 6.4. Oil and Gas
  - 6.4.1. Oil and Gas Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

- 2033 (USD Million)

## 6.5. Energy & Power

6.5.1. Energy & Power Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## 6.6. Food & Beverages

6.6.1. Food & Beverages Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## 6.7. Chemical & Fertilizer

6.7.1. Chemical & Fertilizer Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## 6.8. Electrical & Electronics

6.8.1. Electrical & Electronics Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## 6.9. Aerospace & Defense

6.9.1. Aerospace & Defense Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## 6.10. Others

6.10.1. Others Industrial Ethernet market Revenue Estimates and Forecasts, 2018 - 2033 (USD Million)

## **CHAPTER 7. INDUSTRIAL ETHERNET MARKET: REGIONAL ESTIMATES & TREND ANALYSIS**

7.1. Industrial Ethernet market Share, By Region, 2024 & 2033 (USD Million)

### 7.2. North America

7.2.1. North America Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

#### 7.2.2. U.S.

7.2.2.1. U.S. Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

#### 7.2.3. Canada

7.2.3.1. Canada Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

#### 7.2.4. Mexico

7.2.4.1. Mexico Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.3. Europe

7.3.1. Europe Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.3.2. UK

7.3.2.1. UK Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.3.3. Germany

7.3.3.1. Germany Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.3.4. France

7.3.4.1. France Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

## 7.4. Asia Pacific

7.4.1. Asia Pacific Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.4.2. China

7.4.2.1. China Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.4.3. Japan

7.4.3.1. Japan Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.4.4. India

7.4.4.1. India Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.4.5. South Korea

7.4.5.1. South Korea Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.4.6. Australia

7.4.6.1. Australia Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

## 7.5. Latin America

7.5.1. Latin America Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.5.2. Brazil

7.5.2.1. Brazil Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

## 7.6. Middle East and Africa

7.6.1. Middle East and Africa Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.6.2. KSA

7.6.2.1. KSA Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.6.3. UAE

7.6.3.1. UAE Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

### 7.6.4. South Africa

7.6.4.1. South Africa Industrial Ethernet market Estimates and Forecasts, 2018 - 2033 (USD Million)

## **CHAPTER 8. COMPETITIVE LANDSCAPE**

### 8.1. Company Categorization

### 8.2. Company Market Positioning

### 8.3. Participant's Overview

### 8.4. Financial Performance

### 8.5. Type Benchmarking

### 8.6. Company Heat Map Analysis

### 8.7. Strategy Mapping

### 8.8. Company Profiles/Listing

#### 8.8.1. Cisco Systems, Inc.

##### 8.8.1.1. Participant's Overview

##### 8.8.1.2. Financial Performance

##### 8.8.1.3. Product Benchmarking

##### 8.8.1.4. Recent Developments

#### 8.8.2. Siemens

##### 8.8.2.1. Participant's Overview

##### 8.8.2.2. Financial Performance

##### 8.8.2.3. Product Benchmarking

##### 8.8.2.4. Recent Developments

#### 8.8.3. Rockwell Automation

##### 8.8.3.1. Participant's Overview

##### 8.8.3.2. Financial Performance

##### 8.8.3.3. Product Benchmarking

##### 8.8.3.4. Recent Developments

#### 8.8.4. OMRON Corporation

##### 8.8.4.1. Participant's Overview

##### 8.8.4.2. Financial Performance

##### 8.8.4.3. Product Benchmarking

##### 8.8.4.4. Recent Developments

#### 8.8.5. Moxa Inc.

##### 8.8.5.1. Participant's Overview

- 8.8.5.2. Financial Performance
- 8.8.5.3. Product Benchmarking
- 8.8.5.4. Recent Developments
- 8.8.6. Phoenix Contact
  - 8.8.6.1. Participant's Overview
  - 8.8.6.2. Financial Performance
  - 8.8.6.3. Product Benchmarking
  - 8.8.6.4. Recent Developments
- 8.8.7. Belden Inc.
  - 8.8.7.1. Participant's Overview
  - 8.8.7.2. Financial Performance
  - 8.8.7.3. Product Benchmarking
  - 8.8.7.4. Recent Developments
- 8.8.8. ABB
  - 8.8.8.1. Participant's Overview
  - 8.8.8.2. Financial Performance
  - 8.8.8.3. Product Benchmarking
  - 8.8.8.4. Recent Developments
- 8.8.9. Schneider Electric
  - 8.8.9.1. Participant's Overview
  - 8.8.9.2. Financial Performance
  - 8.8.9.3. Product Benchmarking
  - 8.8.9.4. Recent Developments
- 8.8.10. Bosch Rexroth AG
  - 8.8.10.1. Participant's Overview
  - 8.8.10.2. Financial Performance
  - 8.8.10.3. Product Benchmarking
  - 8.8.10.4. Recent Developments

## List Of Tables

### LIST OF TABLES

- Table 1 Global Industrial Ethernet Market by type, 2018 - 2033 (USD Million)
- Table 2 Global Industrial Ethernet Market by protocol, 2018 - 2033 (USD Million)
- Table 3 Global Industrial Ethernet Market by end-use, 2018 - 2033 (USD Million)
- Table 4 Global Industrial Ethernet Market by region, 2018 - 2033 (USD Million)
- Table 5 North America Industrial Ethernet Market by country, 2018 - 2033 (USD Million)
- Table 6 Europe Industrial Ethernet Market by country, 2018 - 2033 (USD Million)
- Table 7 Asia Pacific Industrial Ethernet Market by country, 2018 - 2033 (USD Million)
- Table 8 Latin America Industrial Ethernet Market by country, 2018 - 2033 (USD Million)
- Table 9 MEA Industrial Ethernet Market by country, 2018 - 2033 (USD Million)
- Table 10 Key companies launching new products/Software
- Table 11 Key companies engaged in mergers & acquisitions
- Table 12 Key companies engaged in Research & development
- Table 13 Key Companies engaged in expansion

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Industrial Ethernet Market segmentation
- Fig. 2 Market research process
- Fig. 3 Information procurement
- Fig. 4 Primary research pattern
- Fig. 5 Market research approaches
- Fig. 6 Market formulation & validation
- Fig. 7 Industrial Ethernet Market snapshot
- Fig. 8 Industrial Ethernet Market segment snapshot
- Fig. 9 Industrial Ethernet Market competitive landscape snapshot
- Fig. 10 Market driver impact analysis
- Fig. 11 Market restraint impact analysis
- Fig. 12 Industrial Ethernet Market, Type outlook key takeaways (USD Million)
- Fig. 13 Industrial Ethernet Market: Type movement analysis 2024 & 2033 (USD Million)
- Fig. 14 Hardware market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 15 Software market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 16 Services market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 17 Industrial Ethernet Market: Protocol outlook key takeaways (USD Million)
- Fig. 18 Industrial Ethernet Market: Protocol movement analysis 2024 & 2033 (USD Million)
- Fig. 19 EtherCAT market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 20 EtherNet/IP market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 21 PROFINET market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 22 POWERLINK market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 23 SERCOS III market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 24 CC-Link IE market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 25 Industrial Ethernet Market: End Use outlook key takeaways (USD Million)
- Fig. 26 Industrial Ethernet Market: End Use movement analysis 2024 & 2033 (USD Million)
- Fig. 27 Automotive & Transportation market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 28 Oil and Gas market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 29 Energy & Power market revenue estimates and forecasts, 2018 - 2033 (USD Million)
- Fig. 30 Food & Beverages market revenue estimates and forecasts, 2018 - 2033 (USD Million)

Million)

Fig. 31 Chemical & Fertilizer market revenue estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 32 Electrical & Electronics market revenue estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 33 Aerospace & Defense market revenue estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 34 Others market revenue estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 35 Regional marketplace: Key takeaways

Fig. 36 Industrial Ethernet Market: Regional outlook, 2024 & 2033 (USD Million)

Fig. 37 North America Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 38 U.S. Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 39 Canada Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 40 Mexico Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 41 Europe Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 42 UK Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 43 Germany Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 44 France Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 45 Asia Pacific Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 46 China Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 47 Japan Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 48 India Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 49 South Korea Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 50 Australia Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 51 Latin America Industrial Ethernet Market estimates and forecasts, 2018 - 2033

(USD Million)

Fig. 52 Brazil Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 53 MEA Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 54 KSA Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 55 UAE Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 56 South Africa Industrial Ethernet Market estimates and forecasts, 2018 - 2033 (USD Million)

Fig. 57 Company Categorization

Fig. 58 Company Market Positioning

Fig. 59 Strategy framework

## I would like to order

Product name: Industrial Ethernet Market Size, Share & Trends Analysis Report By Type (Hardware, Software), By Protocol (EtherCAT, EtherNet/IP), By End-use (Oil & Gas, Energy & Power), By Region, And Segment Forecasts, 2025 - 2033

Product link: <https://marketpublishers.com/r/I27465BE3204EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I27465BE3204EN.html>