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Industrial Ethernet Market: Segmented By Offering (Hardware, Software, Services), By End-use Industry (Automotive & Transportation, Electrical & Electronics), And Region – Global Analysis Of Market Size, Share & Trends For 2019–2020 And Forecasts To 2031

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Abstracts

[172 + Pages Research Report] Global Industrial Ethernet Market to surpass USD 49 billion by 2031 from USD 26.17 billion in 2021 at a CAGR of 6.47% in the coming years, i.e., 2021-31.

Product Overview
Industrial Ethernet (IE) is the application of Ethernet in an industrial environment with protocols that offer determinism and real-time control. Protocols for Industrial Ethernet include EtherCAT, EtherNet/IP, PROFINET, POWERLINK, and Others. Many industrial Ethernet protocols apply a modified Media Access Control (MAC) layer to deliver low latency and determinism. Some microcontrollers such as Sitara deliver industrial Ethernet support.

Market Highlights
Global Industrial Ethernet market is expected to project a notable CAGR of 6.47% in 2031.

The growth is expected to grow at a CAGR of 6.47% during the forecast period. Rising need for scalable, quick, reliable, and interoperable communication protocols, growing mandates by governments of developing economies to promote implementation of industrial automation, and rising popularity of smart automobiles are contributing to the

growth of the industrial ethernet market.

Global Industrial Ethernet: Segments
Hardware segment to grow with the highest CAGR during 2021-31

Global Industrial Ethernet market is classified on the basis of Offering into Hardware, Software, Services. Hardware segment dominates the market share globally. Devices such as IP phones and PCs are linked to the internet to allow rapid communication in industries. Machine-to-machine (M2M) communication in the industrial environment aids facilitate efficient plant operations. It accelerates operations and confirms higher reliability and robustness across several industries, such as automotive, transportation, aerospace & defense, pharmaceutical, and food & beverage.

Automotive & Transportation segment to grow with the highest CAGR during 2021-31

Based on End-use Industry, global Industrial Ethernet Market fragmented into Automotive & Transportation, Electrical & Electronics. Automotive is one of the largest end-use industries of industrial ethernet and is predictable to continue to dominate the market owing to the increasing need for advanced automation in automobile manufacturing hubs worldwide. Similarly, water level monitoring sensors, AC drives, and controllers are the crucial features of water treatment systems, and an industrial ethernet network is used to facilitate communication among these systems. The automotive industry continues to grow at an impressive speed with the adoption of automation and connectivity.

Market Dynamics
Drivers

Rising need for scalable, fast, reliable, and interoperable communication

Industrial Ethernet is vital for attaining complete transparency within an industrial plant, as well as between the plant and enterprise networks. A reliable communication network is the essential of the industry 4.0 concept. Both industrial automation and industrial communication networks are mostly dependent on real-time operational requirements. Hence, they must be able to handle data in a deterministic and redundant way. The system must be scalable across an extensive range of equipment operating on multiple different standards with various interfaces. Consequently, the rising need for scalable and interoperable protocols has amplified initiatives to develop a new set of communication devices.

Emergence of 5G

5G helps to overcome the limitations of other wireless systems. With the onset of 5G technology, the manufacturing industry will experience a main transformation. Attributed to the ultra-low latency and reliability of 5G connectivity, deployment of safe, flexible, and efficient manufacturing systems is possible. 5Gallows continued automation of robots and warehouse transportation and removes the use of cables.

Restraint
Absence of standardization

Industrial equipment or devices connect through several interfaces, technologies, and protocols. The absence of standardization in these communication interfaces and protocols sometimes results in the misrepresentation of information. It also can complicate the integration of systems and hamper the use of plug-and-play features for unrelated systems.

Global Industrial Ethernet: Key Players
ABB Ltd.

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Physik Instrumente (PI) GmbH & Co. KG (ACS Motion Control, Ltd.)
Barta-Schoenewald, Inc. (Advanced Motion Control)
BECKHOFF Automation, Belden, Inc.
Robert Bosch GmbH (Bosch Rexroth AG)
Cisco Systems, Inc.
Eaton Corporation, Honeywell International, Inc.
Innovasic, Inc. (ANALOG DEVICES)
Monnit Corporation (Alta Ethernet Gateway)
Moxa, Inc.
Omron Corporation
Other Prominent Players
Global Industrial Ethernet: Regions
Global Industrial Ethernet market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific, and the Middle East

and Africa. Asia Pacific dominates the Industrial Ethernet market. To compete with other global market players, the companies in Asia Pacific use advanced automation systems, which needs high reliable communication networks for machine-to-machine (M2M) communication in their plants. The manufacturing players in Asia Pacific widely adopt the smart factory idea for implementing advanced manufacturing technologies on the factory floor.

Global Industrial Ethernet is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global Industrial Ethernet report also contains analysis on:

Industrial Ethernet Segments:

By Offering
Hardware
Software
Services
By End-use Industry
Automotive & Transportation
Electrical & Electronics
Industrial Ethernet Dynamics
Industrial Ethernet Size
Supply & Demand
Current Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market
Market Drivers and Restraints
Industrial Ethernet Market Report Scope and Segmentation

Industrial Ethernet Market: Segmented By Offering (Hardware, Software, Services), By End-use Industry (Automot...

Report Attribute Details

Market size value in 2021 USD 26.17billion

Revenue forecast in 2031 USD 49 billion

Growth Rate CAGR of 6.47% from 2021 to 2031

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2030

Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Offering, End-user, and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled ABB Ltd., Physik Instrumente (PI) GmbH & Co. KG (ACS Motion Control, Ltd.), Barta-Schoenewald, Inc. (Advanced Motion Control), BECKHOFF Automation, Belden, Inc., Robert Bosch GmbH (Bosch Rexroth AG), Cisco Systems, Inc., Eaton Corporation, Honeywell International, Inc., Innovasic, Inc. (ANALOG DEVICES), Monnit Corporation (Alta Ethernet Gateway), Moxa, Inc., Omron Corporation, and Other Prominent Players

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3. BARTA-SCHOENEWALD, INC. (ADVANCED MOTION CONTROL)

4. BECKHOFF AUTOMATION, BELDEN, INC.

5. ROBERT BOSCH GMBH (BOSCH REXROTH AG)

6. CISCO SYSTEMS, INC.

7. EATON CORPORATION, HONEYWELL INTERNATIONAL, INC.

8. INNOVASIC, INC. (ANALOG DEVICES)

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9. MONNIT CORPORATION (ALTA ETHERNET GATEWAY)

10. MOXA, INC.

11. OMRON CORPORATION

12. OTHER PROMINENT PLAYERS

Consultant Recommendation
**The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

I would like to order

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