

Industrial Communication Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Industrial Communication Market Summary

Introduction

Industrial Communication encompasses hardware, software, and services that enable seamless data exchange in industrial environments, supporting applications in automotive, aerospace, food & beverages, electronics, pharmaceuticals, oil & gas, and manufacturing. This market excels in bridging operational technologies with IT systems, driven by Industry 4.0, automation, and real-time monitoring needs, with trends shifting toward secure, high-speed, and interoperable solutions.

Market Size and Growth Forecast

The global Industrial Communication market is estimated at USD 22 billion to USD 25 billion in 2025, with a projected CAGR of 7% to 9% from 2025 to 2030, reaching USD 33 billion to USD 40 billion by 2030, reflecting industrial digitalization.

Regional Analysis

North America: Growing at 6-8%, the U.S. leads with manufacturing automation, trending toward secure systems.

Europe: With a 5-7% growth rate, Germany excels in industrial upgrades, focusing on interoperability.

Asia Pacific: Exhibiting an 8-10% growth rate, China dominates with scale, trending toward cost-effective solutions.

Middle East and Africa (MEA): Growing at 4-6%, the UAE advances with oil & gas, emphasizing reliability.

South America: With a 5-7% growth rate, Brazil leads with industrial growth, focusing on affordability.

Application Analysis

Automotive & Transportation: Projected at 8-10%, it thrives on automation, trending toward real-time systems.

Aerospace & Defense: Expected at 6-8%, it serves secure needs, focusing on rugged designs.

Food & Beverages: Growing at 5-7%, it enhances efficiency, with sanitary solutions rising.

Electrical & Electronics: Projected at 7-9%, it supports IoT, trending toward high-speed connectivity.

Pharmaceuticals & Medical Devices: Expected at 6-8%, it ensures compliance, focusing on precision.

Oil & Gas: Growing at 5-7%, it serves remote operations, with durable systems trending.

Industrial Manufacturing: Projected at 7-9%, it drives automation, targeting scalable solutions.

Others: Expected at 4-6%, niche uses expand, driven by custom needs.

Product Type Analysis

Software: Projected at 8-10%, it excels in analytics, trending toward cloud integration.

Hardware: Expected at 6-8%, it provides infrastructure, with compact designs rising.

Services: Growing at 7-9%, it supports deployment, focusing on tailored solutions.

Key Market Players

ABB: A global leader in industrial automation solutions.

Advantech: A versatile innovator in connectivity systems.

Cisco Systems: A robust titan in secure networking.

IBM: A strategic pioneer in industrial software.

HPE: A reliable provider of scalable solutions.

Emerson Electric: A practical leader in process control.

General Electric: A dynamic innovator in industrial tech.

National Instruments: A precision creator of testing systems.

Rockwell Automation: A spirited leader in automation solutions.

Schneider Electric: A vibrant provider of smart systems.

Siemens: A steadfast titan in industrial communication.

Texas Instruments: A resourceful innovator in hardware.

Belden: A reliable leader in industrial cables.

Honeywell: A creative force in control solutions.

Arista Networks: A dynamic innovator in high-speed designs.

Broadcom: A precision leader in semiconductor solutions.

Alcatel-Lucent Enterprise: A vibrant provider of enterprise systems.

HMS Networks: A practical innovator in connectivity.

Moxa: A spirited creator of rugged solutions.

Juniper Networks: A strategic leader in secure networks.

Huawei: A versatile giant in global connectivity.

ZTE: A resourceful provider of scalable systems.

Porter's Five Forces Analysis

Threat of New Entrants: Medium, with technical barriers, though niche players emerge.

Threat of Substitutes: Medium, as wireless competes, yet wired reliability endures.

Bargaining Power of Buyers: Medium to high, with industries negotiating, balanced by expertise.

Bargaining Power of Suppliers: Medium, as component reliance grants leverage, offset by scale.

Competitive Rivalry: High, with innovation and pricing driving competition.

Impact of Tariff Conflicts on Supply Chain Localization

Tariff conflicts have accelerated localized supply chains, pushing firms to establish regional production to avoid duties and ensure component availability. This taps local resources, reduces costs, and aligns with industrial policies, notably in Asia Pacific.

Investments in local facilities enhance responsiveness, but demand capital and regulatory alignment, balancing costs with resilience.

Market Opportunities and Challenges

Opportunities

Industry 4.0 adoption: Automation drives demand, enhancing communication scope.

IoT growth: Device connectivity fuels need, targeting real-time solutions.

Smart manufacturing: Efficiency gains boost use, supporting scalability.

Emerging market potential: Industrial growth in Asia Pacific offers avenues, fueled by scale.

Security focus: Rising cyber needs drive adoption, appealing to regulated sectors.

Challenges

High costs: Expensive systems limit affordability, challenging scale.

Interoperability issues: Diverse standards slow integration, complicating deployments.

Cybersecurity risks: Threats demand robust protection, raising costs.

Supply chain volatility: Component shortages disrupt production, testing operations.

Competitive pressure: Intense rivalry squeezes margins, needing differentiation.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Industrial Communication Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST INDUSTRIAL COMMUNICATION MARKET IN NORTH AMERICA (2020-2030)

8.1 Industrial Communication Market Size

8.2 Industrial Communication Market by End Use

8.3 Competition by Players/Suppliers

8.4 Industrial Communication Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST INDUSTRIAL COMMUNICATION MARKET IN SOUTH AMERICA (2020-2030)

9.1 Industrial Communication Market Size

9.2 Industrial Communication Market by End Use

9.3 Competition by Players/Suppliers

9.4 Industrial Communication Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST INDUSTRIAL COMMUNICATION MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Industrial Communication Market Size

10.2 Industrial Communication Market by End Use

10.3 Competition by Players/Suppliers

10.4 Industrial Communication Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST INDUSTRIAL COMMUNICATION MARKET IN EUROPE (2020-2030)

- 11.1 Industrial Communication Market Size
- 11.2 Industrial Communication Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Industrial Communication Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST INDUSTRIAL COMMUNICATION MARKET IN MEA (2020-2030)

- 12.1 Industrial Communication Market Size
- 12.2 Industrial Communication Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Industrial Communication Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL INDUSTRIAL COMMUNICATION MARKET (2020-2025)

- 13.1 Industrial Communication Market Size
- 13.2 Industrial Communication Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Industrial Communication Market Size by Type

CHAPTER 14 GLOBAL INDUSTRIAL COMMUNICATION MARKET FORECAST (2025-2030)

- 14.1 Industrial Communication Market Size Forecast
- 14.2 Industrial Communication Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Industrial Communication Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

15.1 ABB

- 15.1.1 Company Profile
- 15.1.2 Main Business and Industrial Communication Information
- 15.1.3 SWOT Analysis of ABB
- 15.1.4 ABB Industrial Communication Revenue, Gross Margin and Market Share
(2020-2025)

15.2 Advantech

- 15.2.1 Company Profile
- 15.2.2 Main Business and Industrial Communication Information
- 15.2.3 SWOT Analysis of Advantech
- 15.2.4 Advantech Industrial Communication Revenue, Gross Margin and Market Share
(2020-2025)

15.3 Cisco Systems

- 15.3.1 Company Profile
- 15.3.2 Main Business and Industrial Communication Information
- 15.3.3 SWOT Analysis of Cisco Systems
- 15.3.4 Cisco Systems Industrial Communication Revenue, Gross Margin and Market
Share (2020-2025)

15.4 IBM

- 15.4.1 Company Profile
- 15.4.2 Main Business and Industrial Communication Information
- 15.4.3 SWOT Analysis of IBM
- 15.4.4 IBM Industrial Communication Revenue, Gross Margin and Market Share

(2020-2025)

15.5 HPE

15.5.1 Company Profile

15.5.2 Main Business and Industrial Communication Information

15.5.3 SWOT Analysis of HPE

15.5.4 HPE Industrial Communication Revenue, Gross Margin and Market Share

(2020-2025)

15.6 Emerson Electric

15.6.1 Company Profile

15.6.2 Main Business and Industrial Communication Information

15.6.3 SWOT Analysis of Emerson Electric

15.6.4 Emerson Electric Industrial Communication Revenue, Gross Margin and Market

Share (2020-2025)

15.7 General Electric

15.7.1 Company Profile

15.7.2 Main Business and Industrial Communication Information

15.7.3 SWOT Analysis of General Electric

15.7.4 General Electric Industrial Communication Revenue, Gross Margin and Market

Share (2020-2025)

15.8 National Instruments

15.8.1 Company Profile

15.8.2 Main Business and Industrial Communication Information

15.8.3 SWOT Analysis of National Instruments

15.8.4 National Instruments Industrial Communication Revenue, Gross Margin and

Market Share (2020-2025)

15.9 Rockwell Automation

15.9.1 Company Profile

15.9.2 Main Business and Industrial Communication Information

15.9.3 SWOT Analysis of Rockwell Automation

15.9.4 Rockwell Automation Industrial Communication Revenue, Gross Margin and

Market Share (2020-2025)

15.10 Schneider Electric

15.10.1 Company Profile

15.10.2 Main Business and Industrial Communication Information

15.10.3 SWOT Analysis of Schneider Electric

15.10.4 Schneider Electric Industrial Communication Revenue, Gross Margin and

Market Share (2020-2025)

15.11 Siemens

15.11.1 Company Profile

| |
|---|
| 15.11.2 Main Business and Industrial Communication Information |
| 15.11.3 SWOT Analysis of Siemens |
| 15.11.4 Siemens Industrial Communication Revenue, Gross Margin and Market Share (2020-2025) |
| 15.12 Texas Instruments |
| 15.12.1 Company Profile |
| 15.12.2 Main Business and Industrial Communication Information |
| 15.12.3 SWOT Analysis of Texas Instruments |
| 15.12.4 Texas Instruments Industrial Communication Revenue, Gross Margin and Market Share (2020-2025) |
| 15.13 Belden |
| 15.13.1 Company Profile |
| 15.13.2 Main Business and Industrial Communication Information |
| 15.13.3 SWOT Analysis of Belden |
| 15.13.4 Belden Industrial Communication Revenue, Gross Margin and Market Share (2020-2025) |
| 15.14 Honeywell |
| 15.14.1 Company Profile |
| 15.14.2 Main Business and Industrial Communication Information |
| 15.14.3 SWOT Analysis of Honeywell |
| 15.14.4 Honeywell Industrial Communication Revenue, Gross Margin and Market Share (2020-2025) |
| Please ask for sample pages for full companies list |
| Tables and Figures |
| Table Abbreviation and Acronyms |
| Table Research Scope of Industrial Communication Report |
| Table Data Sources of Industrial Communication Report |
| Table Major Assumptions of Industrial Communication Report |
| Figure Market Size Estimated Method |
| Figure Major Forecasting Factors |
| Figure Industrial Communication Picture |
| Table Industrial Communication Classification |
| Table Industrial Communication Applications |
| Table Drivers of Industrial Communication Market |
| Table Restraints of Industrial Communication Market |
| Table Opportunities of Industrial Communication Market |
| Table Threats of Industrial Communication Market |
| Table Covid-19 Impact For Industrial Communication Market |
| Table Raw Materials Suppliers |

| |
|--|
| Table Different Production Methods of Industrial Communication |
| Table Cost Structure Analysis of Industrial Communication |
| Table Key End Users |
| Table Latest News of Industrial Communication Market |
| Table Merger and Acquisition |
| Table Planned/Future Project of Industrial Communication Market |
| Table Policy of Industrial Communication Market |
| Table 2020-2030 North America Industrial Communication Market Size |
| Figure 2020-2030 North America Industrial Communication Market Size and CAGR |
| Table 2020-2030 North America Industrial Communication Market Size by Application |
| Table 2020-2025 North America Industrial Communication Key Players Revenue |
| Table 2020-2025 North America Industrial Communication Key Players Market Share |
| Table 2020-2030 North America Industrial Communication Market Size by Type |
| Table 2020-2030 United States Industrial Communication Market Size |
| Table 2020-2030 Canada Industrial Communication Market Size |
| Table 2020-2030 Mexico Industrial Communication Market Size |
| Table 2020-2030 South America Industrial Communication Market Size |
| Figure 2020-2030 South America Industrial Communication Market Size and CAGR |
| Table 2020-2030 South America Industrial Communication Market Size by Application |
| Table 2020-2025 South America Industrial Communication Key Players Revenue |
| Table 2020-2025 South America Industrial Communication Key Players Market Share |
| Table 2020-2030 South America Industrial Communication Market Size by Type |
| Table 2020-2030 Brazil Industrial Communication Market Size |
| Table 2020-2030 Argentina Industrial Communication Market Size |
| Table 2020-2030 Chile Industrial Communication Market Size |
| Table 2020-2030 Peru Industrial Communication Market Size |
| Table 2020-2030 Asia & Pacific Industrial Communication Market Size |
| Figure 2020-2030 Asia & Pacific Industrial Communication Market Size and CAGR |
| Table 2020-2030 Asia & Pacific Industrial Communication Market Size by Application |
| Table 2020-2025 Asia & Pacific Industrial Communication Key Players Revenue |
| Table 2020-2025 Asia & Pacific Industrial Communication Key Players Market Share |
| Table 2020-2030 Asia & Pacific Industrial Communication Market Size by Type |
| Table 2020-2030 China Industrial Communication Market Size |
| Table 2020-2030 India Industrial Communication Market Size |
| Table 2020-2030 Japan Industrial Communication Market Size |
| Table 2020-2030 South Korea Industrial Communication Market Size |
| Table 2020-2030 Southeast Asia Industrial Communication Market Size |
| Table 2020-2030 Australia Industrial Communication Market Size |
| Table 2020-2030 Europe Industrial Communication Market Size |

| | |
|---|--|
| Figure 2020-2030 Europe Industrial Communication Market Size and CAGR | |
| Table 2020-2030 Europe Industrial Communication Market Size by Application | |
| Table 2020-2025 Europe Industrial Communication Key Players Revenue | |
| Table 2020-2025 Europe Industrial Communication Key Players Market Share | |
| Table 2020-2030 Europe Industrial Communication Market Size by Type | |
| Table 2020-2030 Germany Industrial Communication Market Size | |
| Table 2020-2030 France Industrial Communication Market Size | |
| Table 2020-2030 United Kingdom Industrial Communication Market Size | |
| Table 2020-2030 Italy Industrial Communication Market Size | |
| Table 2020-2030 Spain Industrial Communication Market Size | |
| Table 2020-2030 Belgium Industrial Communication Market Size | |
| Table 2020-2030 Netherlands Industrial Communication Market Size | |
| Table 2020-2030 Austria Industrial Communication Market Size | |
| Table 2020-2030 Poland Industrial Communication Market Size | |
| Table 2020-2030 Russia Industrial Communication Market Size | |
| Table 2020-2030 MEA Industrial Communication Market Size | |
| Figure 2020-2030 MEA Industrial Communication Market Size and CAGR | |
| Table 2020-2030 MEA Industrial Communication Market Size by Application | |
| Table 2020-2025 MEA Industrial Communication Key Players Revenue | |
| Table 2020-2025 MEA Industrial Communication Key Players Market Share | |
| Table 2020-2030 MEA Industrial Communication Market Size by Type | |
| Table 2020-2030 Egypt Industrial Communication Market Size | |
| Table 2020-2030 Israel Industrial Communication Market Size | |
| Table 2020-2030 South Africa Industrial Communication Market Size | |
| Table 2020-2030 Gulf Cooperation Council Countries Industrial Communication Market Size | |
| Table 2020-2030 Turkey Industrial Communication Market Size | |
| Table 2020-2025 Global Industrial Communication Market Size by Region | |
| Table 2020-2025 Global Industrial Communication Market Size Share by Region | |
| Table 2020-2025 Global Industrial Communication Market Size by Application | |
| Table 2020-2025 Global Industrial Communication Market Share by Application | |
| Table 2020-2025 Global Industrial Communication Key Vendors Revenue | |
| Figure 2020-2025 Global Industrial Communication Market Size and Growth Rate | |
| Table 2020-2025 Global Industrial Communication Key Vendors Market Share | |
| Table 2020-2025 Global Industrial Communication Market Size by Type | |
| Table 2020-2025 Global Industrial Communication Market Share by Type | |
| Table 2025-2030 Global Industrial Communication Market Size by Region | |
| Table 2025-2030 Global Industrial Communication Market Size Share by Region | |
| Table 2025-2030 Global Industrial Communication Market Size by Application | |

Table 2025-2030 Global Industrial Communication Market Share by Application
Table 2025-2030 Global Industrial Communication Key Vendors Revenue
Figure 2025-2030 Global Industrial Communication Market Size and Growth Rate
Table 2025-2030 Global Industrial Communication Key Vendors Market Share
Table 2025-2030 Global Industrial Communication Market Size by Type
Table 2025-2030 Industrial Communication Global Market Share by Type

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