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Industrial Communication Market by Fieldbus, Industrial Ethernet, Wireless, IO-Link, Router & WAP, Switch, Gateway, Communication Interface & Converter, Controller & Connector and Power Supply Device - Global Forecast to 2030

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Abstracts

The global industrial communication market is anticipated to grow from USD 20.45 billion in 2025 to USD 26.06 billion by 2030 at a CAGR of 5.0% between 2025 and 2030. This growth is driven by the increasing financial incentives to integrate SCADA and PLCs in manufacturing sectors, the integration of smart grid technologies in the energy sector, the convergence of digital twin technology and industrial AI, and the rising demand for machine-to-machine communication to optimize industrial efficiency and automation technologies.

“PROFINET segment is expected to dominate the market for industrial Ethernet during the forecast period.”

The PROFINET segment is likely to dominate the industrial Ethernet market between 2025 and 2030 due to its high scalability, real-time performance, and widespread support by top automation suppliers, particularly in Europe. Designed to handle standard and time-critical industrial applications, this technology delivers seamless integration with current installations, making it ideal for numerous disparate industrial environments, ranging from factory automation to process control. Its support for high-speed data exchange, deterministic communications, and open network topologies makes it competitive against other protocols. Moreover, its acceptance across the board by industry leaders and compatibility with a vast array of devices further confirm its status as the go-to industrial Ethernet option.

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”WLAN segment is projected to witness the highest CAGR in the wireless industrial communication market from 2025 to 2030.”

The WLAN segment is likely to grow at the fastest rate in the wireless industrial communication market, driven by the growing demand for wireless, flexible, and scalable connections in smart manufacturing. As businesses use distributed wireless devices, automated guided vehicles (AGVs), and remote monitoring systems, WLAN makes wireless communication possible without the confines of wired infrastructure. Its ability to support real-time data sharing, speedy deployment, and high device density makes it ideal for dynamic, space-limited industrial settings. The use of private wireless networks and Wi-Fi 6 enhances performance, reliability, and security, which is driving WLAN use in a wide range of industrial use cases.

“India is expected to exhibit the highest CAGR in the global industrial communication market during forecast period.”

India is poised to record the highest CAGR in the global industrial communication market during the forecast period owing to the accelerating industrialization, robust government drives such as Make in India and Digital India, and increasing automation adoption in industry verticals, such as manufacturing, energy, and transportation. The expanding industry base, investments in smart factories, and the increasing demand for secure communications infrastructure to enable IIoT and Industry 4.0 are key growth drivers. In addition, favorable policies, advancements in digital infrastructure, and the emergence of regional technology vendors boost the adoption of industrial communication solutions in the region.

Extensive primary interviews were conducted with key industry experts in the industrial communication market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakdown of primary participants for the report has been shown below: The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1 – 30%, Tier 2 – 50%, and Tier 3 – 20%

By Designation: C-level Executives – 10%, Directors – 30%, and Others – 60%

By Region: North America – 25%, Europe – 25%, Asia Pacific – 40%, and RoW – 10%

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Cisco Systems, Inc. (US), Siemens (Germany), OMRON Corporation (Japan), Huawei Technologies Co., Ltd. (China), Rockwell Automation (US), Moxa Inc. (Taiwan), Belden Inc. (US), and ABB (Switzerland) are some key players in the industrial communication market.

Research Coverage: This research report categorizes the industrial communication market based on offering (components, software, services), communication protocol (fieldbus, industrial Ethernet, wireless, IO-link), industry [automotive, electrical & electronics, aerospace & defense, oil & gas, chemicals & fertilizers, food & beverages, pharmaceuticals & medical devices, energy & power, metals & mining, engineering & fabrication, water & wastewater management, and other industries (paper & pulp, glass, cement)], and region (North America, Asia Pacific, Europe, and RoW). The report describes the major drivers, restraints, challenges, and opportunities pertaining to the industrial communication market and forecasts the same till 2030. Apart from this, the report also consists of leadership mapping and analysis of all the companies included in the industrial communication ecosystem.

Key Benefits of Buying the Report The report will help the market leaders/new entrants in this market by providing information on the closest approximations of the revenue numbers for the overall industrial communication market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities. The report provides insights on the following pointers:

Analysis of key drivers (Surging adoption of Industry 4.0; Convergence of industrial AI and digital twin technology; Integration of smart grid technologies in energy sector; Rising preference for machine-to-machine communication to optimize industrial efficiency and automation technologies; Implementation of incentive program to integrate PLCs and SCADA into manufacturing sectors; Deployment of 5G technology in automotive, construction, and manufacturing sectors) restraints (Lack of standardization in industrial communication protocols and interfaces), opportunities (Enhanced smart manufacturing and digital transformation with evolution of 5G technology; Accelerating adoption of wireless networks across industrial sectors), and challenges (Vulnerability to targeted malware, ransomware, and hacking attempts; Challenges associated

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with exposure of equipment to harsh conditions) influencing the growth of the industrial communication market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the industrial communication market

Market Development: Comprehensive information about lucrative markets – the report analyzes the industrial communication market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the industrial communication market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, such Cisco Systems, Inc. (US), Siemens (Germany), OMRON Corporation (Japan), Huawei Technologies Co., Ltd. (China), Rockwell Automation (US), Moxa Inc. (Taiwan), Belden Inc. (US), and ABB (Switzerland), in the industrial communication market

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