

# **Industrial Networking Solutions (INS) Market by Offering, Technology (SD-WAN, WLAN, IIoT), Service, Application (Remote Monitoring, Predictive Maintenance, Emergency & Incident Management), Vertical, Networking Type and Region - Global Forecast to 2028**

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## **Abstracts**

MarketsandMarkets forecasts that the industrial networking solutions market size is projected to grow from USD 29.2 billion in 2023 to USD 73.3 billion by 2028, at a CAGR of 20.2% during the forecast period. As industrial networks become more interconnected, the risk of cyberattacks also increases. Industrial networking solutions providers are developing secure and reliable solutions to protect critical infrastructure from cyber threats.

“By application, the predictive maintenance segment is expected to grow with the highest CAGR during the forecast period.”

The predictive maintenance application smartly identifies the primary variables through root cause analysis and analyzes the assets' performance and products' quality, thereby minimizing reliability issues and meeting the delivery schedules of commercial clients. The predictive maintenance application aims to improve the reflectiveness of every machine on the customer's site and avoid machine failures and the associated consequences. Companies such as Moxa are offering predictive maintenance applications, called proactive self-maintenance, which helps industries monitor the health of the computers deployed in their IIoT-enabled systems for performing preventive maintenance activities, thus maximizing the system's uptime.

“By vertical, the discrete industry segment is expected to hold the largest market size during the forecast period.”

The discrete industry vertical is involved in the manufacturing of distinct items, such as heavy machines, automobile parts, semiconductors and electronics, medical devices, and logistics and transportation equipment. Manufacturers in the discrete industry face challenges, such as ever-changing customer expectations, accelerated time-to-market cycles, regulatory pressure, and the rising cost of materials. To address such challenges, discrete industry companies have started using IIoT technologies and data analytics. The IIoT technology uses sensors fitted into finished goods to track the usage patterns and help the engineers view the usage rate of a particular product. Moreover, by using IIoT technologies, the engineers can assess the real usage data and derive insights for improving the product design by identifying feature gaps, non-value-adding features, use-case segments, and engineering weaknesses.

“Asia Pacific is expected to grow with the highest CAGR during the forecast period.”

The Asia Pacific region has become a hotbed for the rapid adoption of industrial networking solutions. The industrial networking solutions market in the Asia Pacific is booming, fueled by the rising adoption of wireless technologies, cloud adoption, and security concerns with China, Japan, and India leading the charge. Cloud-based services are gaining traction, while industries like BFSI, media, and automotive are driving demand. Consolidation is shaping the competitive landscape, with established players like Cisco, Juniper Networks, and Huawei competing for dominance. As the market embraces new technologies like ML and AI, the future looks bright for industrial networking solutions in Asia Pacific.

### Breakdown of primaries

The study contains insights from various industry experts, from solution vendors to Tier 1 companies. The break-up of the primaries is as follows:

By Company: Tier 1–62%, Tier 2–23%, and Tier 3–15%

By Designation: C-Level Executives–38, Director Level–30%, and Others–32%

By Region: North America–40%, Europe–15%, APAC–35%, MEA- 5%, Latin America- 5%

The major players in the Industrial networking solutions market are Cisco (US), Juniper Networks (US), Huawei (China), Dell Technologies (US), Rockwell Automation (US), Eaton (Ireland), Nokia (Finland), HPE (US), ABB (Switzerland), Belden (US), Siemens (Germany), Moxa (US), Red Lion Controls (US), Veryx Technologies (India), Litmus Automation (US), Celona (US), GE Digital (US), Kyland Technology (China), Graphiant (US), A5G Networks (US). These players have adopted various growth strategies, such as partnerships, agreements and collaborations, new product launches, product enhancements, and acquisitions to expand their footprint in the industrial networking solutions market.

## Research Coverage

The report segments the global Industrial networking solutions market based on offering has been classified into Technologies and Services. By technology, the industrial networking solutions market is divided into three categories: SD-WAN, WLAN, IIoT. By service, the industrial networking solutions market is categorized by Network Planning & Optimization, Network Integration, Network Orchestration, Training & Education, Network Consulting, Network Provisioning, Network Security, Network Auditing & Testing, Support & Maintenance. By application, the market is categorized into: Remote Monitoring, Asset Tracking & Management, Supply Chain Management, Real-Time Streaming & Video, Emergency & Incident Management, Predictive Maintenance. By vertical the market has been classified into Process Industry (Energy & Utilities, Chemicals & Materials, Food & Beverage, Water & Waste Management, Other Process Industries) and Discrete Industry (Automotive, Machine Manufacturing, Semiconductors & Electronics, Medical Devices, Logistics & Transportation). By networking type, the industrial networking solutions market is divided into two categories: Wireless Networking, Wireline Networking. By region, the market has been segmented into North America, Europe, Asia Pacific, Middle East & Africa, and Latin America.

## Key benefits of the report

The report would help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall industrial networking solutions market and the subsegments. This report would help stakeholders understand the competitive landscape and gain insights to better position their businesses and plan suitable go-to-market strategies. The report would help stakeholders understand the pulse of the market and provide them with information on the key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (growing need for predictive maintenance, increase in demand for SDWAN solutions, proliferation of wireless technologies in industry operations, advent of data analytics and data processing, increasing adoption of industry 4.0), restraints (data security and privacy concerns, cost constraint), opportunities (growing integration of IIoT, convergence of OT and IT), and challenges (complexities in connecting legacy systems to the smart infrastructures, data migration challenges, scalability).

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

**Market Development:** Comprehensive information about lucrative markets – the report analyses the industrial networking solutions market across varied regions.

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

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and service offerings of leading players such as Cisco (US), Juniper Networks (US), Huawei (China), Dell Technologies (US), Rockwell Automation (US), Eaton (Ireland), Nokia (Finland), HPE (US), ABB (Switzerland), Belden (US), Siemens (Germany), Moxa (US), Red Lion Controls (US), Veryx Technologies (India), Litmus Automation (US), Celona (US), GE Digital (US), Kyland Technology (China), Graphiant (US), A5G Networks (US).

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TABLE 255 INDUSTRIAL IOT MARKET, BY CONNECTIVITY TECHNOLOGY, 2021–2026 (USD BILLION)

TABLE 256 INDUSTRIAL IOT MARKET, BY REGION, 2017–2020 (USD BILLION)

**TABLE 257 INDUSTRIAL IOT MARKET, BY REGION, 2021–2026 (USD BILLION)****16 APPENDIX**

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16.3 CUSTOMIZATION OPTIONS

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