

Global Private 5G MEC for Industrial Automation Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Private 5G MEC for Industrial Automation market size is expected to reach \$ 15411 million by 2032, rising at a market growth of 16.1% CAGR during the forecast period (2026-2032).

Private 5G MEC for industrial automation refers to the deployment of dedicated 5G private networks integrated with multi-access edge computing (MEC) infrastructure within industrial environments such as factories, warehouses, and energy facilities, enabling ultra-low latency, high reliability, and localized data processing for mission-critical applications. These systems support use cases including autonomous mobile robots (AMRs), machine vision, predictive maintenance, real-time control, and digital twins. From a value chain perspective, upstream includes telecom hardware (base stations, core network equipment), edge servers, industrial sensors, and chips; midstream involves system integration, network deployment, MEC platform configuration, and software orchestration; downstream demand comes from manufacturing enterprises, logistics operators, energy and utilities, and large industrial campuses. The industry maintains gross margins of 28%–45%, supported by integration complexity, customized solutions, and long-term service contracts.

This report studies the global Private 5G MEC for Industrial Automation demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Private 5G MEC for Industrial Automation, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Private 5G MEC for Industrial Automation that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Private 5G MEC for Industrial Automation total market, 2021-2032, (USD Million)

Global Private 5G MEC for Industrial Automation total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Private 5G MEC for Industrial Automation total market, key domestic companies, and share, (USD Million)

Global Private 5G MEC for Industrial Automation revenue by player, revenue and market share 2021-2026, (USD Million)

Global Private 5G MEC for Industrial Automation total market by Type, CAGR, 2021-2032, (USD Million)

Global Private 5G MEC for Industrial Automation total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Private 5G MEC for Industrial Automation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ericsson, Nokia, Huawei, ZTE, Samsung Networks, Cisco, HPE (Aruba), Dell Technologies, IBM, Microsoft (Azure Private MEC), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Private 5G MEC for Industrial Automation market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Private 5G MEC for Industrial Automation Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Private 5G MEC for Industrial Automation Market, Segmentation by Type:

On-premise MEC

Hybrid MEC

Cloud-integrated MEC

Global Private 5G MEC for Industrial Automation Market, Segmentation by Network Architecture:

Standalone 5G (SA)

Non-standalone (NSA)

Network Slicing Enabled

Global Private 5G MEC for Industrial Automation Market, Segmentation by Enterprise Size:

Large Enterprises

Medium Enterprises

Industrial Campuses

Global Private 5G MEC for Industrial Automation Market, Segmentation by Application:

Discrete Manufacturing

Process Industry

Logistics & Warehousing

Energy & Utilities

Companies Profiled:

Ericsson

Nokia

Huawei

ZTE

Samsung Networks

Cisco

HPE (Aruba)

Dell Technologies

IBM

Microsoft (Azure Private MEC)

AWS (Private 5G + Wavelength)

Siemens

Schneider Electric

Rockwell Automation

ABB

China Mobile

China Telecom

China Unicom

Key Questions Answered

1. How big is the global Private 5G MEC for Industrial Automation market?
2. What is the demand of the global Private 5G MEC for Industrial Automation market?
3. What is the year over year growth of the global Private 5G MEC for Industrial Automation market?
4. What is the total value of the global Private 5G MEC for Industrial Automation market?
5. Who are the Major Players in the global Private 5G MEC for Industrial Automation market?
6. What are the growth factors driving the market demand?

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