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Global Industrial 5G Private Network Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Industrial 5G Private Network market size is predicted to grow from US$ 2507 million in 2025 to US$ 8484 million in 2032; it is expected to grow at a CAGR of 19.2% from 2026 to 2032.

An industrial 5G private network is a dedicated 5G communication network designed for industrial production and operational scenarios. By utilizing independent network resources, dedicated spectrum, or logical isolation, it provides data communication services—characterized by high reliability, low latency, and massive connectivity—to industrial equipment, production systems, and smart devices. Built upon a 5G core network, radio access network, edge computing nodes, and an industrial communication management platform, the network enables real-time connectivity and data exchange among production-floor equipment, robots, sensors, control systems, and information systems.

Key Findings

Smart manufacturing represents the largest industrial application segment

Asia Pacific is a major regional market driven by industrial digital transformation

Industrial 5G Private Network projects typically integrate connectivity, edge computing, and industrial applications

Manufacturing, energy, mining, and logistics are major deployment scenarios

Market Trends

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Industrial 5G Private Network is evolving from basic industrial connectivity infrastructure toward integrated intelligent communication platforms. Enterprises are increasingly adopting private 5G solutions to support real-time production control, autonomous equipment operation, industrial robotics, and large-scale device connectivity. The market is gradually moving toward deeper integration of 5G networks with edge computing, industrial AI, digital twins, and industrial software platforms. Future development will focus on improving network flexibility, reducing deployment complexity, and enabling more intelligent industrial operations through seamless communication between machines, systems, and applications.

Market Dynamics

Drivers

The increasing demand for smart factories, industrial automation, and real-time industrial data transmission is driving adoption of Industrial 5G Private Network solutions. Compared with traditional industrial communication networks, private 5G provides advantages in mobility, connection density, reliability, and network management flexibility. The expansion of industrial robots, automated guided vehicles, machine vision systems, and industrial IoT applications further increases demand for dedicated wireless communication infrastructure.

Restraints

Industrial 5G Private Network deployment faces challenges from high initial investment, complex network integration, and limited industrial implementation experience. Enterprises need to coordinate wireless infrastructure, core networks, edge computing systems, and existing industrial control environments, which increases deployment difficulty. In addition, differences in spectrum policies, technical standards, and industrial application requirements across regions may affect large-scale adoption.

Opportunities

Future opportunities are emerging from the integration of Industrial 5G Private Network with edge computing, industrial AI, digital twins, and autonomous systems. Manufacturing enterprises are increasingly seeking wireless communication solutions that support flexible production lines, mobile robots, intelligent inspection, and remote operation. The expansion of private 5G applications in energy, ports, mining, and infrastructure industries provides additional growth opportunities.

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Challenges

The industry faces challenges related to ecosystem maturity, return on investment evaluation, and standardization of industrial applications. Compared with traditional wired industrial networks, private 5G requires enterprises to establish new deployment and operation models. In addition, competition among communication equipment providers, telecom operators, industrial automation companies, and cloud technology providers may increase market complexity.

Industry Chain Analysis

The Industrial 5G Private Network industry chain consists of upstream communication components, midstream network infrastructure and solution providers, and downstream industrial applications. The upstream segment includes 5G chips, radio frequency components, base station equipment, servers, edge computing hardware, and communication modules, which provide the technical foundation for network deployment. The midstream segment covers 5G radio access equipment, private core networks, network management platforms, edge computing systems, and industrial integration services. The downstream segment includes manufacturing, energy, mining, logistics, transportation, and other industrial users.

The value creation of Industrial 5G Private Network is concentrated in end-to-end system integration and industrial application adaptation. While network hardware provides connectivity capabilities, edge computing, software platforms, and industry-specific solutions determine application value and customer adoption. Project profitability is influenced by infrastructure scale, software capabilities, integration complexity, and long-term operation services.

Segment Insights

Industrial 5G Private Network can be segmented by deployment model, network architecture, spectrum mode, application scenario, and coverage scale. Among these segments, manufacturing-oriented private 5G networks currently represent the largest application area due to strong demand for automation, robotics, machine vision, and real-time production management. Local private 5G deployment models are widely used in large industrial facilities requiring high reliability and data security, while operator-managed solutions are gaining attention among enterprises seeking lower deployment complexity.

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From an application perspective, smart manufacturing, industrial logistics, energy management, mining automation, and intelligent ports represent important market segments. The integration of private 5G with edge computing and AI-based industrial applications is creating higher-value solutions beyond basic connectivity services.

Downstream Market Opportunities

Industrial 5G Private Network demand mainly comes from industries requiring reliable wireless communication, large-scale device connectivity, and real-time operational control. Manufacturing remains the primary downstream market, particularly in smart factories, automated production lines, robotics, and machine vision applications. Energy, mining, logistics, ports, and transportation industries are also adopting private 5G to improve operational efficiency, enable remote control, and support intelligent asset management. Emerging opportunities are developing in autonomous industrial systems and AI-driven industrial operations.

Regional Insights

Asia Pacific represents one of the largest regional markets for Industrial 5G Private Network, supported by manufacturing concentration, industrial digitalization initiatives, and large-scale smart factory deployment. The region has strong demand for private 5G applications in manufacturing, logistics, energy, and infrastructure sectors. China, Japan, and South Korea are important markets due to their advanced industrial ecosystems and communication technology capabilities.

Europe maintains strong potential based on advanced manufacturing and industrial automation foundations, while North America benefits from mature enterprise networking, cloud computing, and industrial digital transformation capabilities. Regional development differs according to industrial structure, with developed markets focusing on advanced industrial applications and emerging markets emphasizing basic connectivity upgrades and production digitalization.

Competitive Landscape Analysis

The Industrial 5G Private Network market features competition among communication equipment providers, telecom operators, industrial automation companies, cloud technology companies, and system integrators. Communication equipment companies generally focus on 5G infrastructure, private core networks, and network management platforms. Telecom operators emphasize deployment services, operation capabilities,

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and industry partnerships, while industrial automation companies integrate private 5G with manufacturing systems, control platforms, and industrial applications.

The market is gradually shifting from standalone network deployment toward integrated solutions combining 5G connectivity, edge computing, industrial software, and AI applications. Companies with strong communication technology capabilities, industrial ecosystem partnerships, and end-to-end delivery capabilities are better positioned to address complex industrial requirements.

Report Scope

LPI (LP Information)' newest research report, the “Industrial 5G Private Network Industry Forecast” looks at past sales and reviews total world Industrial 5G Private Network sales in 2025, providing a comprehensive analysis by region and market sector of projected Industrial 5G Private Network sales for 2026 through 2032. With Industrial 5G Private Network sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Industrial 5G Private Network industry.

This Insight Report provides a comprehensive analysis of the global Industrial 5G Private Network landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Industrial 5G Private Network portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Industrial 5G Private Network market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Industrial 5G Private Network and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Industrial 5G Private Network.

This report presents a comprehensive overview, market shares, and growth opportunities of Industrial 5G Private Network market by product type, application, key players and key regions and countries.

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Market Segmentation

Segmentation by Type:

Standalone Deployment

Operator-Managed Deployment

Hybrid Deployment

Segmentation by Network Architecture:

Cloud-based

On-premise

Cloud-Edge Collaboration

Segmentation by Spectrum Resources:

Enterprise-Dedicated Spectrum

Shared Spectrum

Operator Spectrum Slicing

Segmentation by Application:

Manufacturing

Logistics

Energy

Mining

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Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

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Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Nokia

Ericsson

Huawei

Samsung Electronics

ZTE

Cisco Systems

NEC Corporation

Fujitsu

Siemens

Qualcomm

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Intel

Amazon Web Services?AWS?

Verizon Business

AT&T

Deutsche Telekom

NTT

Orange Business

HPE

Telefonica O2

T-Mobile

China Mobile

China Unicom

China Telecom

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Industrial 5G Private Network Market Size (2021-2032)
  2.1.2 Industrial 5G Private Network Market Size CAGR by Region (2021 VS 2025 VS 2032)
  2.1.3 World Current & Future Analysis for Industrial 5G Private Network by Country/Region (2021, 2025 & 2032)
2.2 Industrial 5G Private Network Segment by Type
  2.2.1 Standalone Deployment
  2.2.2 Operator-Managed Deployment
  2.2.3 Hybrid Deployment
  2.2.4 Industrial 5G Private Network Market Size by Type
    2.2.4.1 Industrial 5G Private Network Market Size CAGR by Type (2021 VS 2025 VS 2032)
    2.2.4.2 Global Industrial 5G Private Network Market Size Market Share by Type (2021-2026)
2.3 Industrial 5G Private Network Segment by Network Architecture
  2.3.1 Cloud-based
  2.3.2 On-premise
  2.3.3 Cloud-Edge Collaboration
  2.3.4 Industrial 5G Private Network Market Size by Network Architecture
    2.3.4.1 Industrial 5G Private Network Market Size CAGR by Network Architecture (2021 VS 2025 VS 2032)
    2.3.4.2 Global Industrial 5G Private Network Market Size Market Share by Network Architecture (2021-2026)

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2.4 Industrial 5G Private Network Segment by Spectrum Resources
2.4.1 Enterprise-Dedicated Spectrum
2.4.2 Shared Spectrum
2.4.3 Operator Spectrum Slicing
2.4.4 Industrial 5G Private Network Market Size by Spectrum Resources
2.4.4.1 Industrial 5G Private Network Market Size CAGR by Spectrum Resources (2021 VS 2025 VS 2032)
2.4.4.2 Global Industrial 5G Private Network Market Size Market Share by Spectrum Resources (2021-2026)
2.5 Industrial 5G Private Network Segment by Application
2.5.1 Manufacturing
2.5.2 Logistics
2.5.3 Energy
2.5.4 Mining
2.5.5 Others
2.5.6 Industrial 5G Private Network Market Size by Application
2.5.6.1 Industrial 5G Private Network Market Size CAGR by Application (2021 VS 2025 VS 2032)
2.5.6.2 Global Industrial 5G Private Network Market Size Market Share by Application (2021-2026)

3 INDUSTRIAL 5G PRIVATE NETWORK MARKET SIZE BY PLAYER

3.1 Industrial 5G Private Network Market Size Market Share by Player
3.1.1 Global Industrial 5G Private Network Revenue by Player (2021-2026)
3.1.2 Global Industrial 5G Private Network Revenue Market Share by Player (2021-2026)
3.2 Global Industrial 5G Private Network Key Players Head office and Products Offered
3.3 Market Concentration Rate Analysis
3.3.1 Competition Landscape Analysis
3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.4 New Products and Potential Entrants
3.5 Mergers & Acquisitions, Expansion

4 INDUSTRIAL 5G PRIVATE NETWORK BY REGION

4.1 Industrial 5G Private Network Market Size by Region (2021-2026)
4.2 Global Industrial 5G Private Network Annual Revenue by Country/Region (2021-2026)

+357 96 030922
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4.3 Americas Industrial 5G Private Network Market Size Growth (2021-2026)
4.4 APAC Industrial 5G Private Network Market Size Growth (2021-2026)
4.5 Europe Industrial 5G Private Network Market Size Growth (2021-2026)
4.6 Middle East & Africa Industrial 5G Private Network Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Industrial 5G Private Network Market Size by Country (2021-2026)
5.2 Americas Industrial 5G Private Network Market Size by Type (2021-2026)
5.3 Americas Industrial 5G Private Network Market Size by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Industrial 5G Private Network Market Size by Region (2021-2026)
6.2 APAC Industrial 5G Private Network Market Size by Type (2021-2026)
6.3 APAC Industrial 5G Private Network Market Size by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia

7 EUROPE

7.1 Europe Industrial 5G Private Network Market Size by Country (2021-2026)
7.2 Europe Industrial 5G Private Network Market Size by Type (2021-2026)
7.3 Europe Industrial 5G Private Network Market Size by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

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info@marketpublishers.com

8.1 Middle East & Africa Industrial 5G Private Network by Region (2021-2026)
8.2 Middle East & Africa Industrial 5G Private Network Market Size by Type (2021-2026)
8.3 Middle East & Africa Industrial 5G Private Network Market Size by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 GLOBAL INDUSTRIAL 5G PRIVATE NETWORK MARKET FORECAST

10.1 Global Industrial 5G Private Network Forecast by Region (2027-2032)
  10.1.1 Global Industrial 5G Private Network Forecast by Region (2027-2032)
  10.1.2 Americas Industrial 5G Private Network Forecast
  10.1.3 APAC Industrial 5G Private Network Forecast
  10.1.4 Europe Industrial 5G Private Network Forecast
  10.1.5 Middle East & Africa Industrial 5G Private Network Forecast
10.2 Americas Industrial 5G Private Network Forecast by Country (2027-2032)
  10.2.1 United States Market Industrial 5G Private Network Forecast
  10.2.2 Canada Market Industrial 5G Private Network Forecast
  10.2.3 Mexico Market Industrial 5G Private Network Forecast
  10.2.4 Brazil Market Industrial 5G Private Network Forecast
10.3 APAC Industrial 5G Private Network Forecast by Region (2027-2032)
  10.3.1 China Industrial 5G Private Network Market Forecast
  10.3.2 Japan Market Industrial 5G Private Network Forecast
  10.3.3 Korea Market Industrial 5G Private Network Forecast
  10.3.4 Southeast Asia Market Industrial 5G Private Network Forecast
  10.3.5 India Market Industrial 5G Private Network Forecast
  10.3.6 Australia Market Industrial 5G Private Network Forecast
10.4 Europe Industrial 5G Private Network Forecast by Country (2027-2032)

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10.4.1 Germany Market Industrial 5G Private Network Forecast
10.4.2 France Market Industrial 5G Private Network Forecast
10.4.3 UK Market Industrial 5G Private Network Forecast
10.4.4 Italy Market Industrial 5G Private Network Forecast
10.4.5 Russia Market Industrial 5G Private Network Forecast
10.5 Middle East & Africa Industrial 5G Private Network Forecast by Region (2027-2032)
10.5.1 Egypt Market Industrial 5G Private Network Forecast
10.5.2 South Africa Market Industrial 5G Private Network Forecast
10.5.3 Israel Market Industrial 5G Private Network Forecast
10.5.4 Turkey Market Industrial 5G Private Network Forecast
10.6 Global Industrial 5G Private Network Forecast by Type (2027-2032)
10.7 Global Industrial 5G Private Network Forecast by Application (2027-2032)
10.7.1 GCC Countries Market Industrial 5G Private Network Forecast

11 KEY PLAYERS ANALYSIS

11.1 Nokia
11.1.1 Nokia Company Information
11.1.2 Nokia Industrial 5G Private Network Product Offered
11.1.3 Nokia Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.1.4 Nokia Main Business Overview
11.1.5 Nokia Latest Developments
11.2 Ericsson
11.2.1 Ericsson Company Information
11.2.2 Ericsson Industrial 5G Private Network Product Offered
11.2.3 Ericsson Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.2.4 Ericsson Main Business Overview
11.2.5 Ericsson Latest Developments
11.3 Huawei
11.3.1 Huawei Company Information
11.3.2 Huawei Industrial 5G Private Network Product Offered
11.3.3 Huawei Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.3.4 Huawei Main Business Overview
11.3.5 Huawei Latest Developments
11.4 Samsung Electronics

+357 96 030922
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11.4.1 Samsung Electronics Company Information
11.4.2 Samsung Electronics Industrial 5G Private Network Product Offered
11.4.3 Samsung Electronics Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.4.4 Samsung Electronics Main Business Overview
11.4.5 Samsung Electronics Latest Developments
11.5 ZTE
11.5.1 ZTE Company Information
11.5.2 ZTE Industrial 5G Private Network Product Offered
11.5.3 ZTE Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.5.4 ZTE Main Business Overview
11.5.5 ZTE Latest Developments
11.6 Cisco Systems
11.6.1 Cisco Systems Company Information
11.6.2 Cisco Systems Industrial 5G Private Network Product Offered
11.6.3 Cisco Systems Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.6.4 Cisco Systems Main Business Overview
11.6.5 Cisco Systems Latest Developments
11.7 NEC Corporation
11.7.1 NEC Corporation Company Information
11.7.2 NEC Corporation Industrial 5G Private Network Product Offered
11.7.3 NEC Corporation Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.7.4 NEC Corporation Main Business Overview
11.7.5 NEC Corporation Latest Developments
11.8 Fujitsu
11.8.1 Fujitsu Company Information
11.8.2 Fujitsu Industrial 5G Private Network Product Offered
11.8.3 Fujitsu Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.8.4 Fujitsu Main Business Overview
11.8.5 Fujitsu Latest Developments
11.9 Siemens
11.9.1 Siemens Company Information
11.9.2 Siemens Industrial 5G Private Network Product Offered
11.9.3 Siemens Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

11.9.4 Siemens Main Business Overview
11.9.5 Siemens Latest Developments
11.10 Qualcomm
11.10.1 Qualcomm Company Information
11.10.2 Qualcomm Industrial 5G Private Network Product Offered
11.10.3 Qualcomm Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.10.4 Qualcomm Main Business Overview
11.10.5 Qualcomm Latest Developments
11.11 Intel
11.11.1 Intel Company Information
11.11.2 Intel Industrial 5G Private Network Product Offered
11.11.3 Intel Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.11.4 Intel Main Business Overview
11.11.5 Intel Latest Developments
11.12 Amazon Web Services?AWS?
11.12.1 Amazon Web Services?AWS? Company Information
11.12.2 Amazon Web Services?AWS? Industrial 5G Private Network Product Offered
11.12.3 Amazon Web Services?AWS? Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.12.4 Amazon Web Services?AWS? Main Business Overview
11.12.5 Amazon Web Services?AWS? Latest Developments
11.13 Verizon Business
11.13.1 Verizon Business Company Information
11.13.2 Verizon Business Industrial 5G Private Network Product Offered
11.13.3 Verizon Business Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.13.4 Verizon Business Main Business Overview
11.13.5 Verizon Business Latest Developments
11.14 AT&T
11.14.1 AT&T Company Information
11.14.2 AT&T Industrial 5G Private Network Product Offered
11.14.3 AT&T Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.14.4 AT&T Main Business Overview
11.14.5 AT&T Latest Developments
11.15 Deutsche Telekom
11.15.1 Deutsche Telekom Company Information

+357 96 030922
info@marketpublishers.com

11.15.2 Deutsche Telekom Industrial 5G Private Network Product Offered
11.15.3 Deutsche Telekom Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.15.4 Deutsche Telekom Main Business Overview
11.15.5 Deutsche Telekom Latest Developments
11.16 NTT
11.16.1 NTT Company Information
11.16.2 NTT Industrial 5G Private Network Product Offered
11.16.3 NTT Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.16.4 NTT Main Business Overview
11.16.5 NTT Latest Developments
11.17 Orange Business
11.17.1 Orange Business Company Information
11.17.2 Orange Business Industrial 5G Private Network Product Offered
11.17.3 Orange Business Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.17.4 Orange Business Main Business Overview
11.17.5 Orange Business Latest Developments
11.18 HPE
11.18.1 HPE Company Information
11.18.2 HPE Industrial 5G Private Network Product Offered
11.18.3 HPE Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.18.4 HPE Main Business Overview
11.18.5 HPE Latest Developments
11.19 Telefonica O2
11.19.1 Telefonica O2 Company Information
11.19.2 Telefonica O2 Industrial 5G Private Network Product Offered
11.19.3 Telefonica O2 Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.19.4 Telefonica O2 Main Business Overview
11.19.5 Telefonica O2 Latest Developments
11.20 T-Mobile
11.20.1 T-Mobile Company Information
11.20.2 T-Mobile Industrial 5G Private Network Product Offered
11.20.3 T-Mobile Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.20.4 T-Mobile Main Business Overview

+357 96 030922
info@marketpublishers.com

11.20.5 T-Mobile Latest Developments
11.21 China Mobile
11.21.1 China Mobile Company Information
11.21.2 China Mobile Industrial 5G Private Network Product Offered
11.21.3 China Mobile Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.21.4 China Mobile Main Business Overview
11.21.5 China Mobile Latest Developments
11.22 China Unicom
11.22.1 China Unicom Company Information
11.22.2 China Unicom Industrial 5G Private Network Product Offered
11.22.3 China Unicom Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.22.4 China Unicom Main Business Overview
11.22.5 China Unicom Latest Developments
11.23 China Telecom
11.23.1 China Telecom Company Information
11.23.2 China Telecom Industrial 5G Private Network Product Offered
11.23.3 China Telecom Industrial 5G Private Network Revenue, Gross Margin and Market Share (2021-2026)
11.23.4 China Telecom Main Business Overview
11.23.5 China Telecom Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Industrial 5G Private Network Market Size CAGR by Region (2021 VS 2025 VS 2032) & ($ millions)
Table 2. Industrial 5G Private Network Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Standalone Deployment
Table 4. Major Players of Operator-Managed Deployment
Table 5. Major Players of Hybrid Deployment
Table 6. Industrial 5G Private Network Market Size CAGR by Type (2021 VS 2025 VS 2032) & ($ millions)
Table 7. Global Industrial 5G Private Network Market Size by Type (2021-2026) & ($ millions)
Table 8. Global Industrial 5G Private Network Market Size Market Share by Type (2021-2026)
Table 9. Major Players of Cloud-based
Table 10. Major Players of On-premise
Table 11. Major Players of Cloud-Edge Collaboration
Table 12. Industrial 5G Private Network Market Size CAGR by Network Architecture (2021 VS 2025 VS 2032) & ($ millions)
Table 13. Global Industrial 5G Private Network Market Size by Network Architecture (2021-2026) & ($ millions)
Table 14. Global Industrial 5G Private Network Market Size Market Share by Network Architecture (2021-2026)
Table 15. Major Players of Enterprise-Dedicated Spectrum
Table 16. Major Players of Shared Spectrum
Table 17. Major Players of Operator Spectrum Slicing
Table 18. Industrial 5G Private Network Market Size CAGR by Spectrum Resources (2021 VS 2025 VS 2032) & ($ millions)
Table 19. Global Industrial 5G Private Network Market Size by Spectrum Resources (2021-2026) & ($ millions)
Table 20. Global Industrial 5G Private Network Market Size Market Share by Spectrum Resources (2021-2026)
Table 21. Industrial 5G Private Network Market Size CAGR by Application (2021 VS 2025 VS 2032) & ($ millions)
Table 22. Global Industrial 5G Private Network Market Size by Application (2021-2026) & ($ millions)

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info@marketpublishers.com

Table 23. Global Industrial 5G Private Network Market Size Market Share by Application (2021-2026)
Table 24. Global Industrial 5G Private Network Revenue by Player (2021-2026) & ($ millions)
Table 25. Global Industrial 5G Private Network Revenue Market Share by Player (2021-2026)
Table 26. Industrial 5G Private Network Key Players Head office and Products Offered
Table 27. Industrial 5G Private Network Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 28. New Products and Potential Entrants
Table 29. Mergers & Acquisitions, Expansion
Table 30. Global Industrial 5G Private Network Market Size by Region (2021-2026) & ($ millions)
Table 31. Global Industrial 5G Private Network Market Size Market Share by Region (2021-2026)
Table 32. Global Industrial 5G Private Network Revenue by Country/Region (2021-2026) & ($ millions)
Table 33. Global Industrial 5G Private Network Revenue Market Share by Country/Region (2021-2026)
Table 34. Americas Industrial 5G Private Network Market Size by Country (2021-2026) & ($ millions)
Table 35. Americas Industrial 5G Private Network Market Size Market Share by Country (2021-2026)
Table 36. Americas Industrial 5G Private Network Market Size by Type (2021-2026) & ($ millions)
Table 37. Americas Industrial 5G Private Network Market Size Market Share by Type (2021-2026)
Table 38. Americas Industrial 5G Private Network Market Size by Application (2021-2026) & ($ millions)
Table 39. Americas Industrial 5G Private Network Market Size Market Share by Application (2021-2026)
Table 40. APAC Industrial 5G Private Network Market Size by Region (2021-2026) & ($ millions)
Table 41. APAC Industrial 5G Private Network Market Size Market Share by Region (2021-2026)
Table 42. APAC Industrial 5G Private Network Market Size by Type (2021-2026) & ($ millions)
Table 43. APAC Industrial 5G Private Network Market Size by Application (2021-2026) & ($ millions)

+357 96 030922
info@marketpublishers.com

Table 44. Europe Industrial 5G Private Network Market Size by Country (2021-2026) & ($ millions)
Table 45. Europe Industrial 5G Private Network Market Size Market Share by Country (2021-2026)
Table 46. Europe Industrial 5G Private Network Market Size by Type (2021-2026) & ($ millions)
Table 47. Europe Industrial 5G Private Network Market Size by Application (2021-2026) & ($ millions)
Table 48. Middle East & Africa Industrial 5G Private Network Market Size by Region (2021-2026) & ($ millions)
Table 49. Middle East & Africa Industrial 5G Private Network Market Size by Type (2021-2026) & ($ millions)
Table 50. Middle East & Africa Industrial 5G Private Network Market Size by Application (2021-2026) & ($ millions)
Table 51. Key Market Drivers & Growth Opportunities of Industrial 5G Private Network
Table 52. Key Market Challenges & Risks of Industrial 5G Private Network
Table 53. Key Industry Trends of Industrial 5G Private Network
Table 54. Global Industrial 5G Private Network Market Size Forecast by Region (2027-2032) & ($ millions)
Table 55. Global Industrial 5G Private Network Market Size Market Share Forecast by Region (2027-2032)
Table 56. Global Industrial 5G Private Network Market Size Forecast by Type (2027-2032) & ($ millions)
Table 57. Global Industrial 5G Private Network Market Size Forecast by Application (2027-2032) & ($ millions)
Table 58. Nokia Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 59. Nokia Industrial 5G Private Network Product Offered
Table 60. Nokia Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 61. Nokia Main Business
Table 62. Nokia Latest Developments
Table 63. Ericsson Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 64. Ericsson Industrial 5G Private Network Product Offered
Table 65. Ericsson Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 66. Ericsson Main Business
Table 67. Ericsson Latest Developments

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Table 68. Huawei Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 69. Huawei Industrial 5G Private Network Product Offered
Table 70. Huawei Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 71. Huawei Main Business
Table 72. Huawei Latest Developments
Table 73. Samsung Electronics Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 74. Samsung Electronics Industrial 5G Private Network Product Offered
Table 75. Samsung Electronics Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 76. Samsung Electronics Main Business
Table 77. Samsung Electronics Latest Developments
Table 78. ZTE Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 79. ZTE Industrial 5G Private Network Product Offered
Table 80. ZTE Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 81. ZTE Main Business
Table 82. ZTE Latest Developments
Table 83. Cisco Systems Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 84. Cisco Systems Industrial 5G Private Network Product Offered
Table 85. Cisco Systems Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 86. Cisco Systems Main Business
Table 87. Cisco Systems Latest Developments
Table 88. NEC Corporation Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 89. NEC Corporation Industrial 5G Private Network Product Offered
Table 90. NEC Corporation Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 91. NEC Corporation Main Business
Table 92. NEC Corporation Latest Developments
Table 93. Fujitsu Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 94. Fujitsu Industrial 5G Private Network Product Offered
Table 95. Fujitsu Industrial 5G Private Network Revenue ($ million), Gross Margin and

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Market Share (2021-2026)
Table 96. Fujitsu Main Business
Table 97. Fujitsu Latest Developments
Table 98. Siemens Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 99. Siemens Industrial 5G Private Network Product Offered
Table 100. Siemens Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 101. Siemens Main Business
Table 102. Siemens Latest Developments
Table 103. Qualcomm Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 104. Qualcomm Industrial 5G Private Network Product Offered
Table 105. Qualcomm Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 106. Qualcomm Main Business
Table 107. Qualcomm Latest Developments
Table 108. Intel Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 109. Intel Industrial 5G Private Network Product Offered
Table 110. Intel Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 111. Intel Main Business
Table 112. Intel Latest Developments
Table 113. Amazon Web Services?AWS? Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 114. Amazon Web Services?AWS? Industrial 5G Private Network Product Offered
Table 115. Amazon Web Services?AWS? Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 116. Amazon Web Services?AWS? Main Business
Table 117. Amazon Web Services?AWS? Latest Developments
Table 118. Verizon Business Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 119. Verizon Business Industrial 5G Private Network Product Offered
Table 120. Verizon Business Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 121. Verizon Business Main Business
Table 122. Verizon Business Latest Developments

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Table 123. AT&T Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 124. AT&T Industrial 5G Private Network Product Offered
Table 125. AT&T Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 126. AT&T Main Business
Table 127. AT&T Latest Developments
Table 128. Deutsche Telekom Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 129. Deutsche Telekom Industrial 5G Private Network Product Offered
Table 130. Deutsche Telekom Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 131. Deutsche Telekom Main Business
Table 132. Deutsche Telekom Latest Developments
Table 133. NTT Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 134. NTT Industrial 5G Private Network Product Offered
Table 135. NTT Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 136. NTT Main Business
Table 137. NTT Latest Developments
Table 138. Orange Business Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 139. Orange Business Industrial 5G Private Network Product Offered
Table 140. Orange Business Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 141. Orange Business Main Business
Table 142. Orange Business Latest Developments
Table 143. HPE Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 144. HPE Industrial 5G Private Network Product Offered
Table 145. HPE Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 146. HPE Main Business
Table 147. HPE Latest Developments
Table 148. Telefonica O2 Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 149. Telefonica O2 Industrial 5G Private Network Product Offered
Table 150. Telefonica O2 Industrial 5G Private Network Revenue ($ million), Gross

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Margin and Market Share (2021-2026)
Table 151. Telefonica O2 Main Business
Table 152. Telefonica O2 Latest Developments
Table 153. T-Mobile Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 154. T-Mobile Industrial 5G Private Network Product Offered
Table 155. T-Mobile Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 156. T-Mobile Main Business
Table 157. T-Mobile Latest Developments
Table 158. China Mobile Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 159. China Mobile Industrial 5G Private Network Product Offered
Table 160. China Mobile Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 161. China Mobile Main Business
Table 162. China Mobile Latest Developments
Table 163. China Unicom Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 164. China Unicom Industrial 5G Private Network Product Offered
Table 165. China Unicom Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 166. China Unicom Main Business
Table 167. China Unicom Latest Developments
Table 168. China Telecom Details, Company Type, Industrial 5G Private Network Area Served and Its Competitors
Table 169. China Telecom Industrial 5G Private Network Product Offered
Table 170. China Telecom Industrial 5G Private Network Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 171. China Telecom Main Business
Table 172. China Telecom Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Industrial 5G Private Network Report Years Considered
Figure 2. Research Objectives
Figure 3. Research Methodology
Figure 4. Research Process and Data Source
Figure 5. Global Industrial 5G Private Network Market Size Growth Rate (2021-2032) ($ millions)
Figure 6. Industrial 5G Private Network Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 7. Industrial 5G Private Network Sales Market Share by Country/Region (2025)
Figure 8. Industrial 5G Private Network Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 9. Global Industrial 5G Private Network Market Size Market Share by Type in 2025
Figure 10. Global Industrial 5G Private Network Market Size Market Share by Network Architecture in 2025
Figure 11. Global Industrial 5G Private Network Market Size Market Share by Spectrum Resources in 2025
Figure 12. Industrial 5G Private Network in Manufacturing
Figure 13. Global Industrial 5G Private Network Market: Manufacturing (2021-2026) & ($ millions)
Figure 14. Industrial 5G Private Network in Logistics
Figure 15. Global Industrial 5G Private Network Market: Logistics (2021-2026) & ($ millions)
Figure 16. Industrial 5G Private Network in Energy
Figure 17. Global Industrial 5G Private Network Market: Energy (2021-2026) & ($ millions)
Figure 18. Industrial 5G Private Network in Mining
Figure 19. Global Industrial 5G Private Network Market: Mining (2021-2026) & ($ millions)
Figure 20. Industrial 5G Private Network in Others
Figure 21. Global Industrial 5G Private Network Market: Others (2021-2026) & ($ millions)
Figure 22. Global Industrial 5G Private Network Market Size Market Share by Application in 2025
Figure 23. Global Industrial 5G Private Network Revenue Market Share by Player in

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2025
Figure 24. Global Industrial 5G Private Network Market Size Market Share by Region (2021-2026)
Figure 25. Americas Industrial 5G Private Network Market Size 2021-2026 ($ millions)
Figure 26. APAC Industrial 5G Private Network Market Size 2021-2026 ($ millions)
Figure 27. Europe Industrial 5G Private Network Market Size 2021-2026 ($ millions)
Figure 28. Middle East & Africa Industrial 5G Private Network Market Size 2021-2026 ($ millions)
Figure 29. Americas Industrial 5G Private Network Value Market Share by Country in 2025
Figure 30. United States Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 31. Canada Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 32. Mexico Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 33. Brazil Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 34. APAC Industrial 5G Private Network Market Size Market Share by Region in 2025
Figure 35. APAC Industrial 5G Private Network Market Size Market Share by Type (2021-2026)
Figure 36. APAC Industrial 5G Private Network Market Size Market Share by Application (2021-2026)
Figure 37. China Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 38. Japan Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 39. South Korea Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 40. Southeast Asia Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 41. India Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 42. Australia Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 43. Europe Industrial 5G Private Network Market Size Market Share by Country in 2025
Figure 44. Europe Industrial 5G Private Network Market Size Market Share by Type

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(2021-2026)
Figure 45. Europe Industrial 5G Private Network Market Size Market Share by Application (2021-2026)
Figure 46. Germany Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 47. France Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 48. UK Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 49. Italy Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 50. Russia Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 51. Middle East & Africa Industrial 5G Private Network Market Size Market Share by Region (2021-2026)
Figure 52. Middle East & Africa Industrial 5G Private Network Market Size Market Share by Type (2021-2026)
Figure 53. Middle East & Africa Industrial 5G Private Network Market Size Market Share by Application (2021-2026)
Figure 54. Egypt Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 55. South Africa Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 56. Israel Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 57. Turkey Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 58. GCC Countries Industrial 5G Private Network Market Size Growth 2021-2026 ($ millions)
Figure 59. Americas Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 60. APAC Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 61. Europe Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 62. Middle East & Africa Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 63. United States Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 64. Canada Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 65. Mexico Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 66. Brazil Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 67. China Industrial 5G Private Network Market Size 2027-2032 ($ millions)

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Figure 68. Japan Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 69. Korea Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 70. Southeast Asia Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 71. India Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 72. Australia Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 73. Germany Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 74. France Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 75. UK Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 76. Italy Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 77. Russia Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 78. Egypt Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 79. South Africa Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 80. Israel Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 81. Turkey Industrial 5G Private Network Market Size 2027-2032 ($ millions)
Figure 82. Global Industrial 5G Private Network Market Size Market Share Forecast by Type (2027-2032)
Figure 83. Global Industrial 5G Private Network Market Size Market Share Forecast by Application (2027-2032)
Figure 84. GCC Countries Industrial 5G Private Network Market Size 2027-2032 ($ millions)

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