

# Global Industrial-Grade Private 5G Network Market Growth (Status and Outlook) 2023-2029

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## Abstracts

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According to our (LP Info Research) latest study, the global Industrial-Grade Private 5G Network market size was valued at US\$ million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Industrial-Grade Private 5G Network is forecast to a readjusted size of US\$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Industrial-Grade Private 5G Network market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Industrial-Grade Private 5G Network are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Industrial-Grade Private 5G Network. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Industrial-Grade Private 5G Network market.

Industry 4.0 represents the digital transformation of the physical infrastructure on the factory floor. Industry 4.0 systems draw on big data and data analytics, simulation, artificial intelligence (AI), robotics and other emerging technologies to carry out complex processes efficiently and accurately. These processes draw on AI to make judgment calls, which means manufacturing operations can be optimized for maximum output and profitability. Industry 4.0 needs a network that offers predictable performance, with low-latency and high throughput with high reliability, and quality-of-service (QoS). Private 5G networks provide this connectivity, offering all the benefits of public 5G networks

dimensioned to support manufacturing and enterprise uses.

5G provides the low-latency, highly reliable, secure and scalable networking that Industry 4.0 demands. Low latency is necessary for time sensitive networks (TSN) over 5G, which enables distributed time-sensitive applications in new markets. A private 5G network also provides better device density than other alternatives. 5G supports both sub 6GHz and higher frequency millimeter wave (mmWave) transmission, making the protocol highly adaptable. Sub 6GHz, also called mid-band 5G, offers long range and high throughput (up to 900 Mbps), while mmWave's higher frequencies provide faster throughput but much shorter range. Industry 4.0 use cases can look to midband 5G for communications between facilities and mmWave for maintaining a powerful internal network. Specifically, mmWave's short range and ability to use multiple small cells to route signals around obstacles fits well within a manufacturing or other industrial environment. Because 5G networks based on vRAN are heavily virtualized, hardware investments are significantly reduced compared to older network technologies, and network functions are easily scaled to meet increasing demands. The virtualization also enables managing the network as an IT workload, supporting cloud-native application deployment and orchestration.

#### Key Features:

The report on Industrial-Grade Private 5G Network market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Industrial-Grade Private 5G Network market. It may include historical data, market segmentation by Type (e.g., Low-band (Speeds of Less Than 300 Mbps), Mid-band (Low Multigigabit Speeds)), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Industrial-Grade Private 5G Network market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Industrial-Grade Private 5G Network market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Industrial-Grade Private 5G Network industry. This include advancements in Industrial-Grade Private 5G Network technology, Industrial-Grade Private 5G Network new entrants, Industrial-Grade Private 5G Network new investment, and other innovations that are shaping the future of Industrial-Grade Private 5G Network.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Industrial-Grade Private 5G Network market. It includes factors influencing customer ' purchasing decisions, preferences for Industrial-Grade Private 5G Network product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Industrial-Grade Private 5G Network market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Industrial-Grade Private 5G Network market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Industrial-Grade Private 5G Network market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Industrial-Grade Private 5G Network industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Industrial-Grade Private 5G Network market.

**Market Segmentation:**

Industrial-Grade Private 5G Network market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

## Segmentation by type

Low-band (Speeds of Less Than 300 Mbps)

Mid-band (Low Multigigabit Speeds)

High-band or mmWave (Mid to High Multigigabit Speeds)

## Segmentation by application

Manufacturing

Automobile

Logistics

Energy

Mining

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

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.

Phoenix Contact

NTT

Ericsson

Nokia

Qualcomm

Advantech

Siemens

Huawei

BT Global Services

Telent

Fujitsu

Mavenir

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