

Machine to Machine Connections Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Technology (Wired Technologies and Wireless Technologies), By Product (Mobile Point of Sale Devices, IoT & M2M Modems, Routers and Wireless Beacons), By End- User (Automotive & Transportation, Consumer Electronics, Security & Surveillance, Utilities and Healthcare), By Region & Competition, 2019-2029F

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Abstracts

Global Machine to Machine Connections Market was valued at USD 40.58 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.27% through 2029. The fourth industrial revolution, often referred to as Industry 4.0, emphasizes the integration of digital technologies into industrial processes. Industrial IoT (IIoT) is a key component of this transformation, and M2M connections play a vital role in facilitating communication and data exchange among connected industrial devices. The pursuit of operational efficiency, predictive maintenance, and real-time monitoring in manufacturing and other industries is driving the adoption of M2M in the industrial sector.

Key Market Drivers

Growing Demand for Remote Monitoring and Management

Another key driver propelling the Global M2M Connections Market is the escalating demand for remote monitoring and management capabilities across diverse industries.

As businesses strive for operational efficiency, cost reduction, and improved decision-making processes, M2M connections emerge as a crucial enabler of remote monitoring. Industries such as manufacturing, energy, and healthcare leverage M2M connections to remotely monitor equipment, track assets, and manage critical infrastructure.

In manufacturing, for instance, M2M connections allow real-time monitoring of machinery performance, predictive maintenance, and inventory management. Similarly, in the healthcare sector, M2M connections facilitate remote patient monitoring, ensuring timely intervention and personalized care. The ability to monitor and manage assets and processes remotely enhances efficiency, reduces downtime, and contributes to overall productivity gains, fostering the widespread adoption of M2M connections globally.

Advancements in Communication Technologies, including 5G

The continuous evolution of communication technologies, particularly the advent of 5G networks, serves as a significant driver fueling the growth of the Global M2M Connections Market. The transition from 4G to 5G brings forth unprecedented improvements in data speed, latency, and capacity, providing a robust infrastructure for M2M communication. The enhanced capabilities of 5G networks open up new possibilities for M2M applications, enabling faster and more reliable connections between devices.

5G's low latency and high bandwidth are particularly crucial for applications that demand real-time data transmission, such as autonomous vehicles, smart grids, and augmented reality. As the deployment of 5G networks gains momentum globally, the M2M Connections Market is poised to benefit from the increased accessibility to high-speed, low-latency communication, unlocking new opportunities for innovation and expanding the scope of M2M applications across various industries. The synergies between M2M connections and advanced communication technologies position the market for substantial growth in the foreseeable future.

Key Market Challenges

Interoperability and Standardization Issues

One significant challenge facing the Global Machine to Machine (M2M) Connections Market is the inherent complexity of ensuring seamless interoperability and standardization across diverse devices, platforms, and communication protocols. The

proliferation of M2M-enabled devices from various manufacturers often results in a fragmented landscape where different devices may use proprietary communication standards or protocols. This lack of uniformity poses challenges for the establishment of a cohesive M2M ecosystem.

Interoperability issues hinder the seamless exchange of information between devices, limiting the effectiveness of M2M connections. Standardization becomes critical to address this challenge, as it enables a common framework that ensures compatibility and communication coherence across different devices and systems. However, achieving consensus on standardization can be a complex and time-consuming process, involving collaboration between industry stakeholders, regulatory bodies, and standards organizations. Overcoming these interoperability and standardization challenges is crucial for unlocking the full potential of M2M connections and fostering a more integrated and efficient IoT ecosystem.

Security and Privacy Concerns

The growing interconnectedness of devices in the M2M landscape amplifies the risks associated with security and privacy, posing a significant challenge to the widespread adoption of M2M connections. As the number of connected devices increases, so does the potential attack surface for malicious actors seeking to exploit vulnerabilities in M2M networks. Security breaches can have far-reaching consequences, ranging from unauthorized access to sensitive data to disruptions in critical infrastructure and services.

Ensuring the security and privacy of M2M connections requires robust encryption, authentication, and access control mechanisms. Additionally, the constant evolution of cyber threats necessitates ongoing efforts to stay ahead of potential vulnerabilities. Balancing the need for security with the efficient and real-time nature of M2M communication poses a continuous challenge for industry stakeholders. Addressing security concerns is paramount to instill confidence among businesses and consumers, fostering a secure and resilient M2M Connections Market.

Network Reliability and Scalability

The reliability and scalability of M2M networks present a substantial challenge as the number of connected devices continues to grow exponentially. M2M applications, particularly those in critical sectors such as healthcare, industrial automation, and smart cities, demand high levels of reliability to ensure uninterrupted communication and data

exchange. Network outages or disruptions can have severe consequences, affecting essential services and causing operational inefficiencies.

Scalability is equally crucial as the M2M Connections Market expands. The ability of networks to handle the increasing volume of connected devices and the corresponding surge in data traffic becomes a critical factor in ensuring seamless M2M communication. Achieving both reliability and scalability requires significant investments in infrastructure, including the deployment of advanced technologies such as 5G networks. Additionally, the dynamic nature of M2M applications, with varying requirements for bandwidth and latency, adds complexity to network management. Overcoming these challenges is essential to providing a robust foundation for the growth and sustainability of the Global M2M Connections Market.

Key Market Trends

Edge Computing Integration for Enhanced M2M Processing

A prominent trend shaping the Global Machine to Machine (M2M) Connections Market is the increasing integration of edge computing to enhance data processing capabilities at the edge of the network. As the number of connected devices continues to soar, the traditional cloud-based processing model faces challenges related to latency, bandwidth constraints, and the sheer volume of data generated by M2M connections. Edge computing addresses these challenges by bringing computational capabilities closer to the source of data generation.

In M2M applications, especially those requiring real-time decision-making, edge computing proves instrumental. By processing data locally at the edge, near the devices generating the data, latency is significantly reduced, enabling quicker response times. This is particularly crucial in applications such as autonomous vehicles, industrial automation, and healthcare monitoring, where timely decision-making is paramount.

The integration of edge computing in M2M architectures not only enhances the efficiency of data processing but also reduces the burden on centralized cloud infrastructure. This trend reflects the industry's recognition of the importance of low-latency communication in M2M applications and the strategic deployment of edge computing to meet these requirements.

Emergence of 5G Networks Accelerating M2M Connectivity

An impactful trend influencing the Global M2M Connections Market is the widespread adoption and deployment of 5G networks. The transition from 4G to 5G represents a paradigm shift in communication technology, offering unprecedented improvements in data speed, capacity, and latency. The enhanced capabilities of 5G networks significantly impact the M2M landscape by providing a robust infrastructure to support the growing demands of connected devices.

The increased data transfer speeds and low latency of 5G networks are particularly advantageous for M2M applications requiring real-time communication, such as autonomous vehicles, smart cities, and industrial automation. This trend aligns with the evolving needs of M2M connections, which demand higher bandwidth to accommodate the surge in data generated by an expanding ecosystem of connected devices.

5G networks enable the simultaneous connectivity of a massive number of devices, supporting the scalability requirements of the M2M Connections Market. The deployment of 5G networks on a global scale is unlocking new possibilities for innovation in M2M applications, fostering the development of advanced solutions and services. As 5G infrastructure becomes more widespread, it is expected to be a key enabler in shaping the future of M2M connectivity, ushering in an era of enhanced performance, reliability, and efficiency.

Segmental Insights

End-User Insights

The Automotive & Transportation segment dominated the Global Machine to Machine Connections Market in 2023. One of the primary drivers in the Automotive & Transportation segment is the integration of M2M connections in connected vehicles and fleet management systems. M2M technology enables vehicles to communicate with each other, infrastructure, and central systems in real-time. This connectivity enhances safety through features like collision avoidance systems, provides vehicle diagnostics, and enables efficient fleet management, including route optimization, fuel monitoring, and predictive maintenance.

Telematics, powered by M2M connections, plays a pivotal role in the automotive insurance industry. Insurance companies leverage real-time data from connected vehicles to assess driver behavior, vehicle usage patterns, and risk factors. This data enables the implementation of usage-based insurance models, where premiums are determined based on actual driving behavior. M2M connections contribute to

personalized insurance solutions, leading to more accurate risk assessment and fairer pricing models.

M2M connections are integral to the development of Intelligent Transportation Systems (ITS). These systems use real-time data from connected vehicles and infrastructure to optimize traffic flow, enhance road safety, and reduce congestion. In urban environments, M2M-enabled traffic management systems can dynamically adjust traffic signals, monitor parking availability, and provide real-time information to drivers, contributing to more efficient and sustainable transportation networks.

Regional Insights

North America emerged as the dominating region in 2023, holding the largest market share. North America has witnessed substantial adoption of M2M connections in Industrial Internet of Things (IIoT) applications. Industries such as manufacturing, energy, and utilities leverage M2M technology to enhance operational efficiency, monitor equipment health, and enable predictive maintenance. The seamless integration of M2M connections in industrial processes contributes to the region's competitiveness and productivity.

The healthcare sector in North America has embraced M2M connections to revolutionize patient care, remote monitoring, and healthcare delivery. Connected medical devices, wearables, and telehealth solutions leverage M2M technology to transmit real-time health data, improving diagnosis accuracy and enabling timely interventions. The adoption of M2M in healthcare is driven by the region's focus on technological innovation and improving healthcare outcomes.

North American cities are at the forefront of implementing smart city initiatives, incorporating M2M connections for efficient urban management. Smart infrastructure, intelligent transportation systems, and connected public services are key components of these initiatives. Municipalities use M2M technology to enhance public safety, optimize traffic flow, and improve resource utilization, contributing to the development of sustainable and connected urban environments.

The region is witnessing significant advancements in telecommunications, with the deployment of 5G networks gaining momentum. The evolution from 4G to 5G is a critical enabler for M2M connections, providing faster data transfer, lower latency, and increased network capacity. This development enhances the capabilities of M2M applications, supporting the growing demand for real-time communication in various

industries.

In the agricultural sector, North America utilizes M2M connections for precision farming, crop monitoring, and livestock management. Connected sensors and devices provide farmers with real-time data on soil conditions, weather patterns, and crop health, enabling informed decision-making and optimizing agricultural practices. The adoption of M2M in agriculture contributes to sustainable farming practices and increased yields.

North America has a well-established regulatory framework governing data privacy and security, influencing the adoption of M2M connections. Compliance with regulations, such as the General Data Protection Regulation (GDPR) and the Health Insurance Portability and Accountability Act (HIPAA), is essential for businesses deploying M2M solutions. The region's commitment to data protection ensures a secure and trustworthy M2M ecosystem.

North America stands as a key player in the Global M2M Connections Market, driven by technological innovation, widespread adoption across industries, and a robust regulatory environment. The region's leadership in sectors like IIoT, healthcare, and smart cities positions it at the forefront of M2M evolution, with ongoing developments in connectivity technologies and applications shaping the future of M2M in North America.

Key Market Players

Deutsche Telekom AG

Vodafone Group PLC

AT&T Inc.

Telit Communications Plc

NTT Data Group Corporation

U-blox Holding AG

Telenor ASA

Verizon Communications Inc.

Texas Instruments Incorporated

Intel Corporation

Report Scope:

In this report, the Global Machine to Machine Connections Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Machine to Machine Connections Market, By Technology:

Wired Technologies

Wireless Technologies

Machine to Machine Connections Market, By Product:

Mobile Point of Sale Devices

IoT & M2M Modems

Routers

Wireless Beacons

Machine to Machine Connections Market, By End-User:

Automotive & Transportation

Consumer Electronics

Security & Surveillance

Utilities

Healthcare

Machine to Machine Connections Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Netherlands

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Thailand

Malaysia

South America

Brazil

Argentina

Colombia

Chile

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Machine to Machine Connections Market.

Available Customizations:

Global Machine to Machine Connections Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL MACHINE TO MACHINE CONNECTIONS MARKET

5. VOICE OF CUSTOMER

6. GLOBAL MACHINE TO MACHINE CONNECTIONS MARKET OVERVIEW

7. GLOBAL MACHINE TO MACHINE CONNECTIONS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value

7.2. Market Share & Forecast

7.2.1.By Technology (Wired Technologies and Wireless Technologies)

7.2.2.By Product (Mobile Point of Sale Devices, IoT & M2M Modems, Routers and Wireless Beacons)

7.2.3.By End-User (Automotive & Transportation, Consumer Electronics, Security & Surveillance, Utilities and Healthcare)

7.2.4.By Region (North America, Europe, South America, Middle East & Africa, Asia-Pacific)

7.3. By Company (2023)

7.4. Market Map

8. NORTH AMERICA MACHINE TO MACHINE CONNECTIONS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1.By Value

8.2. Market Share & Forecast

8.2.1.By Technology

8.2.2.By Product

8.2.3.By End-User

8.2.4.By Country

8.3. North America: Country Analysis

8.3.1.United States Machine to Machine Connections Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Technology

8.3.1.2.2. By Product

8.3.1.2.3. By End-User

8.3.2.Canada Machine to Machine Connections Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Technology

8.3.2.2.2. By Product

8.3.2.2.3. By End-User

8.3.3.Mexico Machine to Machine Connections Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Technology

8.3.3.2.2. By Product

8.3.3.2.3. By End-User

9. EUROPE MACHINE TO MACHINE CONNECTIONS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1.By Value

9.2. Market Share & Forecast

9.2.1.By Technology

9.2.2.By Product

9.2.3.By End-User

9.2.4.By Country

9.3. Europe: Country Analysis

9.3.1.Germany Machine to Machine Connections Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Technology

9.3.1.2.2. By Product

9.3.1.2.3. By End-User

9.3.2.France Machine to Machine Connections Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Technology

9.3.2.2.2. By Product

9.3.2.2.3. By End-User

9.3.3.United Kingdom Machine to Machine Connections Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Technology

9.3.3.2.2. By Product

9.3.3.2.3. By End-User

9.3.4.Italy Machine to Machine Connections Market Outlook

9.3.4.1. Market Size & Forecast

9.3.4.1.1. By Value

9.3.4.2. Market Share & Forecast

- 9.3.4.2.1. By Technology
- 9.3.4.2.2. By Product
- 9.3.4.2.3. By End-User
- 9.3.5. Spain Machine to Machine Connections Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Technology
 - 9.3.5.2.2. By Product
 - 9.3.5.2.3. By End-User
- 9.3.6. Netherlands Machine to Machine Connections Market Outlook
 - 9.3.6.1. Market Size & Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share & Forecast
 - 9.3.6.2.1. By Technology
 - 9.3.6.2.2. By Product
 - 9.3.6.2.3. By End-User
- 9.3.7. Belgium Machine to Machine Connections Market Outlook
 - 9.3.7.1. Market Size & Forecast
 - 9.3.7.1.1. By Value
 - 9.3.7.2. Market Share & Forecast
 - 9.3.7.2.1. By Technology
 - 9.3.7.2.2. By Product
 - 9.3.7.2.3. By End-User

10. SOUTH AMERICA MACHINE TO MACHINE CONNECTIONS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Technology
 - 10.2.2. By Product
 - 10.2.3. By End-User
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Machine to Machine Connections Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value

- 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Technology
 - 10.3.1.2.2. By Product
 - 10.3.1.2.3. By End-User
- 10.3.2. Colombia Machine to Machine Connections Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Technology
 - 10.3.2.2.2. By Product
 - 10.3.2.2.3. By End-User
- 10.3.3. Argentina Machine to Machine Connections Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Technology
 - 10.3.3.2.2. By Product
 - 10.3.3.2.3. By End-User
- 10.3.4. Chile Machine to Machine Connections Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Technology
 - 10.3.4.2.2. By Product
 - 10.3.4.2.3. By End-User

11. MIDDLE EAST & AFRICA MACHINE TO MACHINE CONNECTIONS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Technology
 - 11.2.2. By Product
 - 11.2.3. By End-User
 - 11.2.4. By Country
- 11.3. Middle East & Africa: Country Analysis
 - 11.3.1. Saudi Arabia Machine to Machine Connections Market Outlook
 - 11.3.1.1. Market Size & Forecast

- 11.3.1.1.1. By Value
- 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Technology
 - 11.3.1.2.2. By Product
 - 11.3.1.2.3. By End-User
- 11.3.2. UAE Machine to Machine Connections Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Technology
 - 11.3.2.2.2. By Product
 - 11.3.2.2.3. By End-User
- 11.3.3. South Africa Machine to Machine Connections Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Technology
 - 11.3.3.2.2. By Product
 - 11.3.3.2.3. By End-User
- 11.3.4. Turkey Machine to Machine Connections Market Outlook
 - 11.3.4.1. Market Size & Forecast
 - 11.3.4.1.1. By Value
 - 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Technology
 - 11.3.4.2.2. By Product
 - 11.3.4.2.3. By End-User

12. ASIA-PACIFIC MACHINE TO MACHINE CONNECTIONS MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Share & Forecast
 - 12.2.1. By Technology
 - 12.2.2. By Product
 - 12.2.3. By End-User
 - 12.2.4. By Country
- 12.3. Asia-Pacific: Country Analysis
 - 12.3.1. China Machine to Machine Connections Market Outlook
 - 12.3.1.1. Market Size & Forecast

- 12.3.1.1.1. By Value
- 12.3.1.2. Market Share & Forecast
 - 12.3.1.2.1. By Technology
 - 12.3.1.2.2. By Product
 - 12.3.1.2.3. By End-User
- 12.3.2. India Machine to Machine Connections Market Outlook
 - 12.3.2.1. Market Size & Forecast
 - 12.3.2.1.1. By Value
 - 12.3.2.2. Market Share & Forecast
 - 12.3.2.2.1. By Technology
 - 12.3.2.2.2. By Product
 - 12.3.2.2.3. By End-User
- 12.3.3. Japan Machine to Machine Connections Market Outlook
 - 12.3.3.1. Market Size & Forecast
 - 12.3.3.1.1. By Value
 - 12.3.3.2. Market Share & Forecast
 - 12.3.3.2.1. By Technology
 - 12.3.3.2.2. By Product
 - 12.3.3.2.3. By End-User
- 12.3.4. South Korea Machine to Machine Connections Market Outlook
 - 12.3.4.1. Market Size & Forecast
 - 12.3.4.1.1. By Value
 - 12.3.4.2. Market Share & Forecast
 - 12.3.4.2.1. By Technology
 - 12.3.4.2.2. By Product
 - 12.3.4.2.3. By End-User
- 12.3.5. Australia Machine to Machine Connections Market Outlook
 - 12.3.5.1. Market Size & Forecast
 - 12.3.5.1.1. By Value
 - 12.3.5.2. Market Share & Forecast
 - 12.3.5.2.1. By Technology
 - 12.3.5.2.2. By Product
 - 12.3.5.2.3. By End-User
- 12.3.6. Thailand Machine to Machine Connections Market Outlook
 - 12.3.6.1. Market Size & Forecast
 - 12.3.6.1.1. By Value
 - 12.3.6.2. Market Share & Forecast
 - 12.3.6.2.1. By Technology
 - 12.3.6.2.2. By Product

- 12.3.6.2.3. By End-User
- 12.3.7. Malaysia Machine to Machine Connections Market Outlook
 - 12.3.7.1. Market Size & Forecast
 - 12.3.7.1.1. By Value
 - 12.3.7.2. Market Share & Forecast
 - 12.3.7.2.1. By Technology
 - 12.3.7.2.2. By Product
 - 12.3.7.2.3. By End-User

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

- 15.1. Deutsche Telekom AG
 - 15.1.1. Business Overview
 - 15.1.2. Key Revenue and Financials
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel/Key Contact Person
 - 15.1.5. Key Product/Services Offered
- 15.2. Vodafone Group PLC
 - 15.2.1. Business Overview
 - 15.2.2. Key Revenue and Financials
 - 15.2.3. Recent Developments
 - 15.2.4. Key Personnel/Key Contact Person
 - 15.2.5. Key Product/Services Offered
- 15.3. AT&T Inc.
 - 15.3.1. Business Overview
 - 15.3.2. Key Revenue and Financials
 - 15.3.3. Recent Developments
 - 15.3.4. Key Personnel/Key Contact Person
 - 15.3.5. Key Product/Services Offered
- 15.4. Telit Communications Plc
 - 15.4.1. Business Overview
 - 15.4.2. Key Revenue and Financials

- 15.4.3. Recent Developments
- 15.4.4. Key Personnel/Key Contact Person
- 15.4.5. Key Product/Services Offered
- 15.5. NTT Data Group Corporation
 - 15.5.1. Business Overview
 - 15.5.2. Key Revenue and Financials
 - 15.5.3. Recent Developments
 - 15.5.4. Key Personnel/Key Contact Person
 - 15.5.5. Key Product/Services Offered
- 15.6. U-blox Holding AG
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel/Key Contact Person
 - 15.6.5. Key Product/Services Offered
- 15.7. Telenor ASA
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel/Key Contact Person
 - 15.7.5. Key Product/Services Offered
- 15.8. Verizon Communications Inc.
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel/Key Contact Person
 - 15.8.5. Key Product/Services Offered
- 15.9. Texas Instruments Incorporated
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel/Key Contact Person
 - 15.9.5. Key Product/Services Offered
- 15.10. Intel Corporation
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel/Key Contact Person
 - 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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