

# **Private Narrowband IoT Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Application (Real-Time Streaming Analytics, Asset Tracking, Smart Parking Management, Security, Logistics Tracking, Soil Monitoring and Others), By Development (In-Band, Standalone, Guard Band), By Vertical (Agriculture, Logistics & Transportation, Healthcare, Industrial Manufacturing, Energy & Utilities and Others), By Region, By Competition, 2019-2029F**

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## **Abstracts**

Global Private Narrowband IoT Market was valued at USD 45.23 billion in 2023 and is expected to reach USD 115.75 billion by 2029 with a CAGR of 16.78% during the forecast period. The Private Narrowband IoT Market refers to a specialized segment of the broader IoT ecosystem, focusing on the deployment of dedicated, private communication networks that utilize narrowband technologies to support IoT applications. These private networks are designed to provide secure, reliable, and low-power connectivity for a wide array of IoT devices, enabling organizations to manage and monitor their assets efficiently. Unlike public cellular networks, private narrowband IoT solutions offer enhanced control over data transmission, reduced latency, and improved security, making them ideal for industries requiring stringent data protection and real-time monitoring, such as manufacturing, logistics, healthcare, and utilities. The rising demand for IoT solutions across various sectors, driven by the need for automation, improved operational efficiency, and data-driven decision-making, is a primary factor propelling the growth of the private narrowband IoT market.

## Key Market Drivers

### Increasing Demand for Secure Communication

The Global Private Narrowband IoT (NB-IoT) market is significantly driven by the rising demand for secure communication across various industries. As businesses and organizations increasingly rely on connected devices for critical operations, the need for robust security measures to protect sensitive data becomes paramount. Private NB-IoT networks offer enhanced security features compared to traditional public networks, ensuring that data transmitted between devices is encrypted and secure from potential cyber threats. This is particularly vital in sectors such as healthcare, where patient data confidentiality is crucial, and in manufacturing, where proprietary information must be safeguarded. The growing adoption of connected devices, coupled with the escalating frequency of cyberattacks, is pushing organizations to seek more secure communication solutions, thus driving the growth of the Private NB-IoT market. Additionally, regulatory requirements related to data protection and privacy are further incentivizing businesses to invest in secure private networks that comply with these standards. Companies are increasingly recognizing that a secure communication infrastructure not only protects their assets but also enhances their reputation and customer trust. As industries evolve and integrate more Internet of Things (IoT) devices, the demand for Private NB-IoT networks as a secure solution is expected to rise, contributing to market growth.

### Expansion of IoT Applications Across Industries

The rapid expansion of IoT applications across various sectors is another key driver for the growth of the Global Private Narrowband IoT market. Industries such as agriculture, logistics, manufacturing, and smart cities are increasingly adopting IoT solutions to optimize their operations and improve efficiency. Private NB-IoT networks facilitate the deployment of IoT devices by providing reliable, low-power, and wide-area connectivity, making them suitable for applications that require extensive coverage and minimal power consumption. For instance, in agriculture, NB-IoT enables precision farming through real-time monitoring of soil conditions, crop health, and weather patterns, allowing farmers to make data-driven decisions that enhance yield and resource efficiency. In logistics, Private NB-IoT can be used to track shipments and monitor the condition of goods in transit, improving supply chain visibility and reducing losses. Moreover, the emergence of smart city initiatives is further fueling the demand for Private NB-IoT networks, as municipalities look to implement smart infrastructure

solutions for traffic management, waste management, and public safety. As organizations across diverse sectors recognize the transformative potential of IoT technologies, the need for reliable and scalable connectivity solutions, such as Private NB-IoT networks, will continue to grow, driving market expansion.

### Cost Efficiency and Scalability of Private Networks

Cost efficiency and scalability are critical factors driving the adoption of Global Private Narrowband IoT networks. Organizations are increasingly seeking solutions that offer a favorable return on investment while meeting their connectivity needs. Private NB-IoT networks provide a cost-effective solution for deploying a large number of connected devices, as they require lower operational costs compared to traditional cellular networks. The low power consumption associated with NB-IoT devices allows for longer battery life, reducing the frequency of maintenance and replacement. Additionally, organizations can scale their networks according to their specific requirements without incurring significant costs, making Private NB-IoT an attractive option for businesses looking to expand their IoT capabilities. The ability to customize and manage private networks also provides organizations with greater control over their IoT ecosystems, allowing them to tailor their solutions to meet unique operational needs. As industries continue to evolve and the demand for connected devices grows, the cost efficiency and scalability offered by Private NB-IoT networks will become increasingly appealing to businesses, driving further market growth.

### Key Market Challenges

#### Infrastructure Limitations and Deployment Costs

One of the primary challenges facing the Global Private Narrowband IoT (NB-IoT) Market is the significant infrastructure limitations and associated deployment costs. Implementing a private NB-IoT network requires substantial investments in physical infrastructure, including base stations, antennas, and backhaul connections, particularly in remote or rural areas where existing telecommunications infrastructure may be lacking. This requirement can pose a considerable financial burden for small and medium-sized enterprises (SMEs) and organizations that lack the capital resources necessary for such extensive infrastructure development. Additionally, the costs do not end with initial deployment; ongoing maintenance, upgrades, and operational expenses further strain budgets. For many potential users, particularly those in industries like agriculture, manufacturing, and logistics, the financial viability of deploying a private NB-IoT network can be a significant hurdle. Moreover, the technical expertise required to

set up and manage these networks is not universally available, leading to potential challenges in network optimization and maintenance. As organizations navigate these complexities, the necessity of skilled personnel to ensure optimal performance and troubleshoot issues can lead to additional costs and operational challenges. Thus, the combination of high deployment costs and infrastructure limitations can deter businesses from adopting private NB-IoT solutions, slowing market growth and hindering widespread implementation.

## Regulatory and Standardization Issues

Another substantial challenge in the Global Private Narrowband IoT Market is the complex regulatory landscape and lack of standardization across different regions and industries. The deployment and operation of NB-IoT networks are subject to various regulations that can differ significantly from one jurisdiction to another, creating confusion and potential compliance issues for organizations looking to implement these technologies. This inconsistency can complicate the adoption process, as companies must navigate a patchwork of regulatory requirements that can impact everything from frequency allocation to data privacy and security measures. Additionally, the absence of universally accepted standards for private NB-IoT solutions can lead to interoperability challenges, making it difficult for organizations to integrate their private networks with existing systems or devices. This fragmentation can inhibit innovation and slow down the overall adoption of private NB-IoT solutions, as organizations may hesitate to invest in technologies that lack clear standardization and regulatory guidance. Furthermore, as the Internet of Things continues to evolve, emerging technologies and competing solutions may further complicate the regulatory landscape, making it imperative for industry stakeholders to advocate for clearer guidelines and standards. Without a concerted effort to address these regulatory and standardization issues, the Private Narrowband IoT Market may struggle to reach its full potential, limiting the growth opportunities available to businesses seeking to leverage the advantages of private networks for their IoT applications.

## Key Market Trends

### Growing Adoption of Private Networks for IoT Solutions

The Global Private Narrowband IoT (NB-IoT) Market is experiencing a significant trend toward the adoption of private networks tailored for IoT solutions across various industries. Organizations are increasingly recognizing the need for dedicated networks to ensure secure and reliable data transmission, particularly in sectors such as

manufacturing, logistics, and utilities. These private networks offer numerous advantages over public networks, including enhanced security, reduced latency, and improved control over data management. Companies can deploy their own NB-IoT infrastructure, allowing them to customize network parameters based on specific operational requirements, thereby optimizing performance. This trend is driven by the increasing demand for IoT applications, such as asset tracking, smart metering, and predictive maintenance, which require reliable connectivity and low-power consumption. Moreover, private networks can effectively address concerns related to data privacy and compliance with industry regulations, making them an attractive option for organizations handling sensitive information. As industries seek to enhance operational efficiency and minimize risks, the private NB-IoT market is expected to grow, fostering innovations and driving investment in dedicated IoT infrastructure. The flexibility and scalability offered by private networks also support the deployment of a wide range of IoT devices, enabling organizations to expand their capabilities and harness the full potential of connected technologies.

### Expanding Applications in Smart Cities and Infrastructure

The Global Private Narrowband IoT Market is also witnessing an expanding range of applications in the development of smart cities and infrastructure. As urbanization continues to rise globally, cities are increasingly turning to IoT technologies to enhance the quality of life for their residents, improve resource management, and streamline public services. Private NB-IoT networks are ideal for smart city applications, as they provide reliable, secure connectivity for various IoT devices, including smart meters, environmental sensors, and traffic management systems. By implementing private networks, municipalities can ensure that sensitive data collected from these devices remains secure while maintaining control over their infrastructure. Applications such as smart waste management, where sensors monitor waste levels in real time to optimize collection routes, and smart lighting, which adjusts based on pedestrian presence, are becoming more prevalent, demonstrating the tangible benefits of IoT integration in urban settings. Furthermore, the implementation of private NB-IoT solutions can enhance public safety through improved surveillance and emergency response systems. As governments and city planners seek innovative solutions to address urban challenges, the demand for Private Narrowband IoT technologies is expected to grow, facilitating the development of sustainable and efficient smart city initiatives. This trend not only underscores the versatility of NB-IoT technology but also highlights its critical role in shaping the future of urban infrastructure and services.

### Segmental Insights

## Application Insights

The Real-Time Streaming Analytics segment held the largest Market share in 2023. The Private Narrowband IoT (NB-IoT) Market is witnessing robust growth in the Real-Time Streaming Analytics segment, driven by several interconnected factors that emphasize the increasing demand for efficient data management and analysis in various industries. As organizations increasingly adopt IoT solutions, the need for real-time data processing has become paramount. Real-time streaming analytics enables businesses to monitor and analyze data as it is generated, providing critical insights that facilitate timely decision-making and operational efficiency. This capability is particularly beneficial in sectors such as manufacturing, healthcare, logistics, and agriculture, where timely data can significantly impact performance and productivity. The rise of Industry 4.0 and smart cities initiatives is propelling the demand for advanced IoT applications, necessitating the integration of private NB-IoT networks to ensure secure, reliable, and low-latency communication. These private networks provide organizations with enhanced control over their data and network infrastructure, reducing the risks associated with public networks and enabling seamless data transmission. The growing emphasis on data privacy and security is driving enterprises to seek private solutions that can ensure compliance with stringent regulations, such as GDPR and CCPA, while maintaining the integrity of sensitive information. As organizations navigate complex regulatory landscapes, the ability to analyze streaming data in real-time within a private network framework becomes essential for maintaining compliance and protecting customer trust.

Advancements in machine learning and artificial intelligence are enhancing the capabilities of real-time streaming analytics, allowing organizations to derive actionable insights from large volumes of data quickly. The integration of these technologies with private NB-IoT solutions empowers businesses to implement predictive maintenance, optimize resource allocation, and enhance customer experiences, further driving the adoption of real-time analytics in IoT deployments. The ongoing digital transformation across industries is also contributing to the growth of the Private NB-IoT Market, as companies seek to leverage data-driven insights to enhance operational efficiencies and drive innovation. In particular, the proliferation of connected devices and sensors generates vast amounts of data, necessitating robust analytics solutions to process and interpret this information in real time. The ability to capture, analyze, and act upon streaming data effectively positions organizations to capitalize on new opportunities and respond to market dynamics swiftly. The rise of edge computing is complementing the growth of real-time streaming analytics in private NB-IoT deployments. By processing

data closer to the source, edge computing reduces latency and bandwidth usage, enabling organizations to make faster, data-driven decisions while optimizing their network resources. As businesses increasingly recognize the value of leveraging real-time data to gain a competitive edge, the demand for Private Narrowband IoT solutions with integrated streaming analytics capabilities is expected to surge. In summary, the convergence of the need for real-time data processing, regulatory compliance, enhanced security, and advanced analytics technologies is driving the growth of the Private Narrowband IoT Market in the Real-Time Streaming Analytics segment, positioning organizations to harness the full potential of IoT deployments and achieve operational excellence.

## Regional Insights

North America region held the largest market share in 2023. The Private Narrowband IoT (NB-IoT) Market in North America is experiencing significant growth, driven by several key factors that highlight its transformative potential across various sectors. Firstly, the increasing adoption of Internet of Things (IoT) technologies is a primary driver, as businesses and organizations seek to leverage connected devices to improve operational efficiency, reduce costs, and enhance service delivery. With the proliferation of smart devices and the need for reliable, low-power connectivity, NB-IoT offers a compelling solution for applications ranging from smart cities and agriculture to healthcare and logistics. Additionally, the rising demand for private networks is being fueled by the growing emphasis on data security and privacy. Organizations are increasingly wary of potential vulnerabilities associated with public networks, prompting them to invest in private NB-IoT networks that provide greater control over their data and enhanced protection against cyber threats. This shift towards private networks is particularly evident in critical industries such as manufacturing, energy, and transportation, where sensitive data handling is paramount. Government initiatives and regulatory support for IoT deployment are further propelling the market forward. Various North American governments are actively promoting the development and integration of IoT technologies through funding and policy frameworks, encouraging enterprises to adopt private NB-IoT solutions. The emphasis on enhancing infrastructure and connectivity in urban areas is also driving demand, as cities seek to implement smart solutions that require robust and reliable communication networks.

The evolution of wireless technologies, including the ongoing rollout of 5G networks, is providing a conducive environment for the growth of private NB-IoT. 5G networks enable higher bandwidth and lower latency, making it easier to support a larger number of devices and enhance the performance of IoT applications. This technological

advancement further underscores the necessity for private NB-IoT solutions, which can operate seamlessly alongside existing and future network architectures. Furthermore, the growing trend of digital transformation across various industries is fostering the adoption of IoT solutions that utilize private NB-IoT networks. Businesses are increasingly looking to optimize their operations through automation and real-time data analytics, which are facilitated by the reliable connectivity that NB-IoT offers. This digital transformation is particularly prominent in sectors such as agriculture, where precision farming technologies are gaining traction, and in logistics, where real-time tracking of assets is becoming essential. The increasing focus on sustainability and energy efficiency is also influencing the market. Organizations are seeking ways to minimize their environmental impact, and private NB-IoT networks can facilitate the deployment of smart grid solutions, environmental monitoring systems, and energy-efficient operations. By providing reliable and efficient connectivity for these applications, private NB-IoT contributes to broader sustainability goals and aligns with corporate social responsibility initiatives. The Private Narrowband IoT Market in North America is poised for significant growth, driven by the increasing adoption of IoT technologies, the need for enhanced data security, government support, advancements in wireless technologies, and the ongoing trend of digital transformation across industries. As organizations continue to recognize the value of private networks for their operational needs, the demand for private NB-IoT solutions will likely accelerate, paving the way for innovative applications and sustainable practices in the region.

### Key Market Players

Huawei Technologies Co., Ltd

Telefonaktiebolaget LM Ericsson

Qualcomm Incorporated

AT&T Inc

Verizon Communications Inc.

Nokia Corporation

Vodafone Group Plc

Intel Corporation



## Report Scope:

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

### Private Narrowband IoT Market, By Application:

Real-Time Streaming Analytics

Asset Tracking

Smart Parking Management

Security

Logistics Tracking

Soil Monitoring

Others

### Private Narrowband IoT Market, By Development:

In-Band

Standalone

Guard Band

### Private Narrowband IoT Market, By Vertical:

Agriculture

Logistics & Transportation

Healthcare

Industrial Manufacturing

Energy & Utilities

Others

Private Narrowband IoT Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Private Narrowband IoT Market.

## Available Customizations:

Global Private Narrowband IoT 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
- 1.3. 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. VOICE OF CUSTOMER

### 5. GLOBAL PRIVATE NARROWBAND IOT MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Application (Real-Time Streaming Analytics, Asset Tracking, Smart Parking Management, Security, Logistics Tracking, Soil Monitoring and Others)
  - 5.2.2. By Development (In-Band, Standalone, Guard Band)
  - 5.2.3. By Vertical (Agriculture, Logistics & Transportation, Healthcare, Industrial

Manufacturing, Energy & Utilities and Others)

5.2.4. By Region

5.2.5. By Company (2023)

5.3. Market Map

## **6. NORTH AMERICA PRIVATE NARROWBAND IOT MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Application

6.2.2. By Development

6.2.3. By Vertical

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Private Narrowband IoT Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Application

6.3.1.2.2. By Development

6.3.1.2.3. By Vertical

6.3.2. Canada Private Narrowband IoT Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Application

6.3.2.2.2. By Development

6.3.2.2.3. By Vertical

6.3.3. Mexico Private Narrowband IoT Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Application

6.3.3.2.2. By Development

6.3.3.2.3. By Vertical

## **7. EUROPE PRIVATE NARROWBAND IOT MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Application
  - 7.2.2. By Development
  - 7.2.3. By Vertical
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Private Narrowband IoT Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Application
      - 7.3.1.2.2. By Development
      - 7.3.1.2.3. By Vertical
  - 7.3.2. United Kingdom Private Narrowband IoT Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Application
      - 7.3.2.2.2. By Development
      - 7.3.2.2.3. By Vertical
  - 7.3.3. Italy Private Narrowband IoT Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Application
      - 7.3.3.2.2. By Development
      - 7.3.3.2.3. By Vertical
  - 7.3.4. France Private Narrowband IoT Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Application
      - 7.3.4.2.2. By Development
      - 7.3.4.2.3. By Vertical
  - 7.3.5. Spain Private Narrowband IoT Market Outlook
    - 7.3.5.1. Market Size & Forecast
      - 7.3.5.1.1. By Value

- 7.3.5.2. Market Share & Forecast
  - 7.3.5.2.1. By Application
  - 7.3.5.2.2. By Development
  - 7.3.5.2.3. By Vertical

## **8. ASIA-PACIFIC PRIVATE NARROWBAND IOT MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Application
  - 8.2.2. By Development
  - 8.2.3. By Vertical
  - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
  - 8.3.1. China Private Narrowband IoT 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 Application
      - 8.3.1.2.2. By Development
      - 8.3.1.2.3. By Vertical
  - 8.3.2. India Private Narrowband IoT 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 Application
      - 8.3.2.2.2. By Development
      - 8.3.2.2.3. By Vertical
  - 8.3.3. Japan Private Narrowband IoT 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 Application
      - 8.3.3.2.2. By Development
      - 8.3.3.2.3. By Vertical
  - 8.3.4. South Korea Private Narrowband IoT Market Outlook
    - 8.3.4.1. Market Size & Forecast
      - 8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Application
  - 8.3.4.2.2. By Development
  - 8.3.4.2.3. By Vertical
- 8.3.5. Australia Private Narrowband IoT Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Application
    - 8.3.5.2.2. By Development
    - 8.3.5.2.3. By Vertical

## **9. SOUTH AMERICA PRIVATE NARROWBAND IOT MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Application
  - 9.2.2. By Development
  - 9.2.3. By Vertical
  - 9.2.4. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Private Narrowband IoT 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 Application
      - 9.3.1.2.2. By Development
      - 9.3.1.2.3. By Vertical
  - 9.3.2. Argentina Private Narrowband IoT 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 Application
      - 9.3.2.2.2. By Development
      - 9.3.2.2.3. By Vertical
  - 9.3.3. Colombia Private Narrowband IoT 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 Application

#### 9.3.3.2.2. By Development

#### 9.3.3.2.3. By Vertical

## **10. MIDDLE EAST AND AFRICA PRIVATE NARROWBAND IOT MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Application

#### 10.2.2. By Development

#### 10.2.3. By Vertical

#### 10.2.4. By Country

### 10.3. Middle East and Africa: Country Analysis

#### 10.3.1. South Africa Private Narrowband IoT 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 Application

###### 10.3.1.2.2. By Development

###### 10.3.1.2.3. By Vertical

#### 10.3.2. Saudi Arabia Private Narrowband IoT 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 Application

###### 10.3.2.2.2. By Development

###### 10.3.2.2.3. By Vertical

#### 10.3.3. UAE Private Narrowband IoT 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 Application

###### 10.3.3.2.2. By Development

###### 10.3.3.2.3. By Vertical

#### 10.3.4. Kuwait Private Narrowband IoT 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 Application
  - 10.3.4.2.2. By Development
  - 10.3.4.2.3. By Vertical
- 10.3.5. Turkey Private Narrowband IoT Market Outlook
  - 10.3.5.1. Market Size & Forecast
    - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
    - 10.3.5.2.1. By Application
    - 10.3.5.2.2. By Development
    - 10.3.5.2.3. By Vertical

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

## **13. COMPANY PROFILES**

- 13.1. Huawei Technologies Co., Ltd
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel/Key Contact Person
  - 13.1.5. Key Product/Services Offered
- 13.2. Telefonaktiebolaget LM Ericsson
  - 13.2.1. Business Overview
  - 13.2.2. Key Revenue and Financials
  - 13.2.3. Recent Developments
  - 13.2.4. Key Personnel/Key Contact Person
  - 13.2.5. Key Product/Services Offered
- 13.3. Qualcomm Incorporated
  - 13.3.1. Business Overview
  - 13.3.2. Key Revenue and Financials
  - 13.3.3. Recent Developments
  - 13.3.4. Key Personnel/Key Contact Person

13.3.5. Key Product/Services Offered

13.4. AT&T Inc

13.4.1. Business Overview

13.4.2. Key Revenue and Financials

13.4.3. Recent Developments

13.4.4. Key Personnel/Key Contact Person

13.4.5. Key Product/Services Offered

13.5. Verizon Communications Inc.

13.5.1. Business Overview

13.5.2. Key Revenue and Financials

13.5.3. Recent Developments

13.5.4. Key Personnel/Key Contact Person

13.5.5. Key Product/Services Offered

13.6. Nokia Corporation

13.6.1. Business Overview

13.6.2. Key Revenue and Financials

13.6.3. Recent Developments

13.6.4. Key Personnel/Key Contact Person

13.6.5. Key Product/Services Offered

13.7. Vodafone Group Plc

13.7.1. Business Overview

13.7.2. Key Revenue and Financials

13.7.3. Recent Developments

13.7.4. Key Personnel/Key Contact Person

13.7.5. Key Product/Services Offered

13.8. Intel Corporation

13.8.1. Business Overview

13.8.2. Key Revenue and Financials

13.8.3. Recent Developments

13.8.4. Key Personnel/Key Contact Person

13.8.5. Key Product/Services Offered

## **14. STRATEGIC RECOMMENDATIONS**

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