

# **Global Wireless Mesh Network Market by Component (Physical Appliances, Mesh Platforms, Services), By Mesh Design (Infrastructure Wireless Mesh, AD-HOC Mesh), By Service (Deployment & Provisioning, Network Planning, Other), By Radio Frequency (Sub 1 GHZ Band, 2.4 GHZ Band, 4.9 GHZ Band, 5 GHZ Band), By Application (Video Streaming & Surveillance, Disaster Management, Other), By Region, Competition, 2018-2028**

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## **Abstracts**

The projected market size for the global wireless mesh network market is expected to reach USD 6.67 billion by the end of 2022, with a compound annual growth rate (CAGR) of 12.41% during the forecast period. The global wireless mesh network market is a rapidly evolving landscape that addresses connectivity challenges through decentralized communication infrastructure. Wireless mesh networks consist of interconnected nodes that enable seamless communication in urban environments, industrial settings, disaster-stricken areas, and remote regions. These networks ensure robust connectivity by utilizing self-healing and self-configuring mechanisms, allowing uninterrupted communication even in the face of node failures or changes. The proliferation of IoT devices and the demand for reliable connectivity drive the market's growth, making it a crucial solution for smart cities, industrial IoT, transportation, and emergency response systems. Despite challenges such as interference and security concerns, the market showcases a diverse range of players, emphasizing innovation and adaptability in reshaping the global communication landscape.

## **Key Market Drivers**

## Proliferation of IoT Devices and Applications

The exponential growth of the Internet of Things (IoT) has emerged as a significant driver propelling the global wireless mesh network market. As billions of devices are interconnected to gather, transmit, and exchange data, the demand for seamless and reliable connectivity becomes paramount. Wireless mesh networks offer an ideal solution by enabling devices to communicate directly or via neighboring nodes, creating a flexible and adaptable network architecture. This is particularly crucial in scenarios where traditional centralized networks may be impractical or cost-prohibitive. From smart homes and industrial IoT deployments to smart cities and agricultural automation, the mesh networking approach can effectively support the massive influx of IoT devices, allowing them to communicate efficiently and enhancing the overall IoT ecosystem.

## Scalability and Resilience for Smart Cities

The global trend toward smart city initiatives is driving the adoption of wireless mesh networks as a foundational communication infrastructure. Smart cities leverage technology to optimize services, improve resource management, and enhance citizen experiences. Wireless mesh networks play a pivotal role in connecting diverse devices and sensors deployed across urban environments. These networks offer the scalability needed to accommodate the increasing number of connected devices while maintaining robust connectivity. Additionally, the self-configuring and self-healing capabilities of mesh networks ensure that connectivity remains intact even in the face of disruptions. As cities continue to evolve into interconnected hubs of innovation, wireless mesh networks provide a resilient backbone for various applications, including traffic management, public safety, energy efficiency, and environmental monitoring.

## Remote and Challenging Environments

Wireless mesh networks have gained prominence in addressing communication challenges in remote or challenging environments. These environments, such as rural areas, disaster-stricken regions, and industrial sites, often lack reliable infrastructure for traditional network deployment. Wireless mesh networks offer a cost-effective alternative, enabling rapid deployment and extending connectivity to areas where wired infrastructure is not feasible. These networks can be quickly established to support emergency response efforts, providing crucial communication pathways during natural disasters or humanitarian crises. Furthermore, industries like mining, oil and gas, and agriculture benefit from mesh networks by enabling real-time monitoring of assets,

equipment, and operations in remote locations. The ability to create ad-hoc networks in harsh and challenging conditions positions wireless mesh networks as a vital tool for ensuring connectivity and safety.

## Next-Generation Connectivity and 5G Integration

As the world ushers in the era of next-generation connectivity, wireless mesh networks find synergy with emerging technologies like 5G. While 5G promises ultra-fast speeds and low latency, it also presents challenges related to coverage, especially in dense urban environments or challenging topographies. Wireless mesh networks can serve as a complementary solution to extend 5G coverage and enhance connectivity in areas with potential dead zones or connectivity gaps. By strategically deploying mesh nodes, service providers can optimize coverage, increase capacity, and ensure reliable connectivity in various scenarios. The integration of wireless mesh networks with 5G infrastructure further demonstrates their versatility and adaptability, positioning them as an essential component of the evolving communication landscape.

## Key Market Challenges

### Network Interference and Congestion

One of the prominent challenges facing the global wireless mesh network market is the potential for network interference and congestion. As wireless mesh networks rely on a decentralized architecture with multiple interconnected nodes, the simultaneous transmission of data can lead to interference and congestion, resulting in degraded network performance. The challenge intensifies as the number of connected devices and nodes increases, especially in densely populated urban areas or crowded events. Network interference can lead to packet collisions, increased latency, and reduced throughput, impacting the quality of service for users and applications.

To address this challenge, network planners and providers must adopt advanced interference management techniques. These techniques may include dynamic channel assignment, beamforming, and spectrum analysis to optimize signal propagation and mitigate interference. Additionally, intelligent routing algorithms can help distribute traffic efficiently across the network, reducing the risk of congestion. As the demand for seamless connectivity and high-quality service grows, effectively managing network interference becomes pivotal to ensuring the reliability and performance of wireless mesh networks.

## Scalability and Management Complexity

Scalability and management complexity represent another significant challenge in the global wireless mesh network market. While wireless mesh networks offer flexibility and adaptability, scaling up the network to accommodate a larger number of devices and nodes can introduce management complexities. As the network expands, ensuring consistent connectivity, efficient routing, and seamless handoffs between nodes becomes increasingly intricate. The dynamic nature of mesh networks, where nodes may join or leave the network dynamically, adds to the management complexity. Managing a large-scale wireless mesh network requires sophisticated management tools and protocols. Network administrators need solutions that enable centralized monitoring, configuration, and troubleshooting across the network's entirety. Effective management tools should provide insights into node performance, traffic patterns, and potential bottlenecks, allowing administrators to make informed decisions for optimization. Moreover, addressing scalability challenges often involves careful network planning, including the strategic placement of nodes and the implementation of load-balancing mechanisms to distribute traffic evenly.

## Key Market Trends

### Convergence of 5G and Wireless Mesh Networks

A prominent trend reshaping the global wireless mesh network market is the convergence with 5G technology. As 5G networks roll out, they offer unparalleled speeds and low latency, transforming the connectivity landscape. However, challenges such as coverage in densely populated areas or complex urban environments persist. Here, wireless mesh networks emerge as a complementary solution. By integrating mesh nodes strategically with 5G infrastructure, service providers can extend coverage, eliminate dead zones, and ensure seamless connectivity. This convergence offers a holistic approach to address both the capacity and coverage aspects of wireless communication. It not only enhances user experiences but also caters to diverse use cases, from urban centers to remote locations, making it a pivotal trend that shapes the synergy between next-generation connectivity and mesh networking.

### Edge Computing Integration for Low Latency Applications

The integration of edge computing within wireless mesh networks is a trend gaining significant traction. Edge computing involves processing data closer to the source, reducing latency and enhancing real-time capabilities. This trend is particularly crucial

for applications requiring instantaneous response times, such as industrial automation, augmented reality, and connected vehicles. By deploying computing resources at the network's edge, wireless mesh networks can offer low-latency communication, enabling rapid data analysis and decision-making. The distributed nature of mesh networks aligns well with the principles of edge computing, creating an ecosystem where data is processed, filtered, and acted upon at the network's periphery. As industries increasingly demand real-time insights and actions, the integration of edge computing within wireless mesh networks serves as a transformative trend that enhances performance and opens doors to innovative applications.

### Enhanced Security and Privacy Protocols

Security and privacy have become paramount concerns in the digital age, and this trend is significantly impacting the global wireless mesh network market. As mesh networks connect an increasing number of devices and sensors, safeguarding data and ensuring network integrity become critical imperatives. To address these concerns, the industry is witnessing a surge in the development of enhanced security and privacy protocols tailored to the unique characteristics of mesh networks. From robust encryption mechanisms to intrusion detection systems and secure key management, these protocols are designed to provide multi-layered protection against cyber threats and unauthorized access. The evolving regulatory landscape, including regulations like GDPR, further underscores the importance of data protection. Market players are innovating to provide solutions that not only offer seamless connectivity but also ensure that sensitive data remains confidential and secure.

### Segmental Insights

#### Mesh Design Insights

Based on mesh design, the ad-hoc mesh segment emerges as the predominant segment, exhibiting unwavering dominance projected throughout the forecast period. This design involves a decentralized network architecture, where nodes communicate directly with one another, forming a flexible and self-configuring network. Its enduring prominence reflects its adaptability in various scenarios, from urban environments to remote areas. The ad-hoc mesh design's ability to establish robust and dynamic communication pathways positions it as a pivotal choice for addressing connectivity challenges and fostering seamless data transmission across a multitude of applications and industries.

## Radio Frequency Insights

Based on radio frequency, the 2.4 GHz band segment emerges as a formidable frontrunner, exerting its dominance and shaping the market's trajectory throughout the forecast period. This frequency band's formidable frontrunner status is rooted in its widespread adoption and versatile application capabilities. The 2.4 GHz band offers a balance between range and data transmission speed, making it ideal for various scenarios ranging from home environments to industrial settings. Its dominance underscores its compatibility with a wide array of devices and technologies, contributing to its steadfast position. As wireless mesh networks continue to proliferate across diverse industries, the dominance of the 2.4 GHz band reinforces its role in providing reliable and efficient connectivity, solidifying its influence on the market's evolution.

## Regional Insights

North America firmly establishes itself as a commanding presence within the global Wireless Mesh Network market, affirming its preeminent position, and highlighting its pivotal role in shaping the industry's course. North America's leadership not only influences market trends but also shapes the direction of the industry's evolution. With its vast urban landscapes, smart city initiatives, and diverse industrial applications, North America serves as a fertile ground for the deployment of Wireless Mesh Networks. The region's role in advancing connectivity, enhancing IoT ecosystems, and fostering technological innovation underscores its pivotal contribution to the market's growth. As North America continues to lead in research, development, and implementation, its commanding presence reinforces its pivotal role in steering the course of the Wireless Mesh Network industry on a global scale.

## Key Market Players

Motorola Solutions Inc.

ABB (Tropos Networks Inc.)

Belair Networks (NAS Wireless LLC)

Cisco Systems, Inc.

Strix Systems, Inc.

Synapse Wireless Inc.

Brocade (Ruckus Wireless Inc.)

Firetide, Inc.

HP (Aruba Networks Inc.)

Unicom Systems, Inc.

### Report Scope:

In this report, the global wireless mesh network market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Wireless Mesh Network Market, By Component:

Physical Appliances

Mesh Platforms

Services

Global Wireless Mesh Network Market, By Mesh Design:

Infrastructure Wireless Mesh

Ad-Hoc Mesh

Global Wireless Mesh Network Market, By Service:

Deployment & Provisioning

Network Planning

Other

Global Wireless Mesh Network Market, By Radio Frequency:

Sub 1 GHZ Band

2.4 GHZ Band

4.9 GHZ Band

5 GHZ Band

Global Wireless Mesh Network Market, By Application:

Video Streaming & Surveillance

Disaster Management

Other

Global Wireless Mesh Network Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Wireless Mesh Network Market.

Available Customizations:

Global wireless mesh network market report with the given market data, Tech Sci

*Global Wireless Mesh Network Market by Component (Physical Appliances, Mesh Platforms, Services), By Mesh Desi...*



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. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

## **3. EXECUTIVE SUMMARY**

## **4. IMPACT OF COVID-19 ON GLOBAL WIRELESS MESH NETWORK MARKET**

## **5. VOICE OF CUSTOMER**

## **6. GLOBAL WIRELESS MESH NETWORK MARKET OVERVIEW**

## **7. GLOBAL WIRELESS MESH NETWORK MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Component (Physical Appliances, Mesh Platforms, Services)
  - 7.2.2. By Mesh Design (Infrastructure Wireless Mesh, AD-HOC Mesh)
  - 7.2.3. By Service (Deployment & Provisioning, Network Planning, Other)
  - 7.2.4. By Radio Frequency (Sub 1 GHZ Band, 2.4 GHZ Band, 4.9 GHZ Band, 5 GHZ Band)
  - 7.2.5. By Application (Video Streaming & Surveillance, Disaster Management, Other)
  - 7.2.6. By Region

7.3. By Company (2022)

7.4. Market Map

## **8. NORTH AMERICA WIRELESS MESH NETWORK MARKET OUTLOOK**

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Mesh Design

8.2.3. By Service

8.2.4. By Radio Frequency

8.2.5. By Application

8.2.6. By Country

8.3. North America: Country Analysis

8.3.1. United States Wireless Mesh Network 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 Component

8.3.1.2.2. By Mesh Design

8.3.1.2.3. By Service

8.3.1.2.4. By Radio Frequency

8.3.1.2.5. By Application

8.3.2. Canada Wireless Mesh Network 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 Component

8.3.2.2.2. By Mesh Design

8.3.2.2.3. By Service

8.3.2.2.4. By Radio Frequency

8.3.2.2.5. By Application

8.3.3. Mexico Wireless Mesh Network 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 Component

8.3.3.2.2. By Mesh Design

- 8.3.3.2.3. By Service
- 8.3.3.2.4. By Radio Frequency
- 8.3.3.2.5. By Application

## **9. EUROPE WIRELESS MESH NETWORK MARKET OUTLOOK**

### 9.1. Market Size & Forecast

#### 9.1.1. By Value

### 9.2. Market Share & Forecast

#### 9.2.1. By Component

#### 9.2.2. By Mesh Design

#### 9.2.3. By Service

#### 9.2.4. By Radio Frequency

#### 9.2.5. By Application

#### 9.2.6. By Country

### 9.3. Europe: Country Analysis

#### 9.3.1. Germany Wireless Mesh Network 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 Component

###### 9.3.1.2.2. By Mesh Design

###### 9.3.1.2.3. By Service

###### 9.3.1.2.4. By Radio Frequency

###### 9.3.1.2.5. By Application

#### 9.3.2. United Kingdom Wireless Mesh Network 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 Component

###### 9.3.2.2.2. By Mesh Design

###### 9.3.2.2.3. By Service

###### 9.3.2.2.4. By Radio Frequency

###### 9.3.2.2.5. By Application

#### 9.3.3. France Wireless Mesh Network 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 Component

- 9.3.3.2.2. By Mesh Design
- 9.3.3.2.3. By Service
- 9.3.3.2.4. By Radio Frequency
- 9.3.3.2.5. By Application
- 9.3.4. Spain Wireless Mesh Network 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 Component
    - 9.3.4.2.2. By Mesh Design
    - 9.3.4.2.3. By Service
    - 9.3.4.2.4. By Radio Frequency
    - 9.3.4.2.5. By Application
- 9.3.5. Italy Wireless Mesh Network 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 Component
    - 9.3.5.2.2. By Mesh Design
    - 9.3.5.2.3. By Service
    - 9.3.5.2.4. By Radio Frequency
    - 9.3.5.2.5. By Application

## **10. SOUTH AMERICA WIRELESS MESH NETWORK MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Component
  - 10.2.2. By Mesh Design
  - 10.2.3. By Service
  - 10.2.4. By Radio Frequency
  - 10.2.5. By Application
  - 10.2.6. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Wireless Mesh Network 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 Component
- 10.3.1.2.2. By Mesh Design
- 10.3.1.2.3. By Service
- 10.3.1.2.4. By Radio Frequency
- 10.3.1.2.5. By Application
- 10.3.2. Argentina Wireless Mesh Network 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 Component
    - 10.3.2.2.2. By Mesh Design
    - 10.3.2.2.3. By Service
    - 10.3.2.2.4. By Radio Frequency
    - 10.3.2.2.5. By Application
- 10.3.3. Colombia Wireless Mesh Network 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 Component
    - 10.3.3.2.2. By Mesh Design
    - 10.3.3.2.3. By Service
    - 10.3.3.2.4. By Radio Frequency
    - 10.3.3.2.5. By Application

## **11. MIDDLE EAST & AFRICA WIRELESS MESH NETWORK MARKET OUTLOOK**

- 11.1. Market Size & Forecast
  - 11.1.1. By Value
- 11.2. Market Share & Forecast
  - 11.2.1. By Component
  - 11.2.2. By Mesh Design
  - 11.2.3. By Service
  - 11.2.4. By Radio Frequency
  - 11.2.5. By Application
  - 11.2.6. By Country
- 11.3. Middle East & America: Country Analysis
  - 11.3.1. Israel Wireless Mesh Network 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 Component
  - 11.3.1.2.2. By Mesh Design
  - 11.3.1.2.3. By Service
  - 11.3.1.2.4. By Radio Frequency
  - 11.3.1.2.5. By Application
- 11.3.2. Qatar Wireless Mesh Network 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 Component
    - 11.3.2.2.2. By Mesh Design
    - 11.3.2.2.3. By Service
    - 11.3.2.2.4. By Radio Frequency
    - 11.3.2.2.5. By Application
- 11.3.3. UAE Wireless Mesh Network 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 Component
    - 11.3.3.2.2. By Mesh Design
    - 11.3.3.2.3. By Service
    - 11.3.3.2.4. By Radio Frequency
    - 11.3.3.2.5. By Application
- 11.3.4. Saudi Arabia Wireless Mesh Network 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 Component
    - 11.3.4.2.2. By Mesh Design
    - 11.3.4.2.3. By Service
    - 11.3.4.2.4. By Radio Frequency
    - 11.3.4.2.5. By Application

## **12. ASIA PACIFIC WIRELESS MESH NETWORK MARKET OUTLOOK**

- 12.1. Market Size & Forecast
  - 12.1.1. By Value
- 12.2. Market Share & Forecast

- 12.2.1. By Component
- 12.2.2. By Mesh Design
- 12.2.3. By Service
- 12.2.4. By Radio Frequency
- 12.2.5. By Application
- 12.2.6. By Country
- 12.3. Asia Pacific: Country Analysis
  - 12.3.1. China Wireless Mesh Network 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 Component
      - 12.3.1.2.2. By Mesh Design
      - 12.3.1.2.3. By Service
      - 12.3.1.2.4. By Radio Frequency
      - 12.3.1.2.5. By Application
  - 12.3.2. Japan Wireless Mesh Network 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 Component
      - 12.3.2.2.2. By Mesh Design
      - 12.3.2.2.3. By Service
      - 12.3.2.2.4. By Radio Frequency
      - 12.3.2.2.5. By Application
  - 12.3.3. South Korea Wireless Mesh Network 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 Component
      - 12.3.3.2.2. By Mesh Design
      - 12.3.3.2.3. By Service
      - 12.3.3.2.4. By Radio Frequency
      - 12.3.3.2.5. By Application
  - 12.3.4. India Wireless Mesh Network 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 Component



- 12.3.4.2.2. By Mesh Design
- 12.3.4.2.3. By Service
- 12.3.4.2.4. By Radio Frequency
- 12.3.4.2.5. By Application
- 12.3.5. Australia Wireless Mesh Network 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 Component
    - 12.3.5.2.2. By Mesh Design
    - 12.3.5.2.3. By Service
    - 12.3.5.2.4. By Radio Frequency
    - 12.3.5.2.5. By Application

## **13. MARKET DYNAMICS**

- 13.1. Drivers
- 13.2. Challenges

## **14. MARKET TRENDS AND DEVELOPMENTS**

## **15. COMPANY PROFILES**

- 15.1. Motorola Solutions Inc.
  - 15.1.1. Business Overview
  - 15.1.2. Key Financials & Revenue
  - 15.1.3. Key Contact Person
  - 15.1.4. Headquarters Address
  - 15.1.5. Key Product/Service Offered
- 15.2. ABB (Tropos Networks Inc.)
  - 15.2.1. Business Overview
  - 15.2.2. Key Financials & Revenue
  - 15.2.3. Key Contact Person
  - 15.2.4. Headquarters Address
  - 15.2.5. Key Product/Service Offered
- 15.3. Belair Networks (NAS Wireless LLC)
  - 15.3.1. Business Overview
  - 15.3.2. Key Financials & Revenue
  - 15.3.3. Key Contact Person

- 15.3.4. Headquarters Address
- 15.3.5. Key Product/Service Offered
- 15.4. Cisco Systems, Inc.
  - 15.4.1. Business Overview
  - 15.4.2. Key Financials & Revenue
  - 15.4.3. Key Contact Person
  - 15.4.4. Headquarters Address
  - 15.4.5. Key Product/Service Offered
- 15.5. Strix Systems, Inc.
  - 15.5.1. Business Overview
  - 15.5.2. Key Financials & Revenue
  - 15.5.3. Key Contact Person
  - 15.5.4. Headquarters Address
  - 15.5.5. Key Product/Service Offered
- 15.6. Synapse Wireless Inc.
  - 15.6.1. Business Overview
  - 15.6.2. Key Financials & Revenue
  - 15.6.3. Key Contact Person
  - 15.6.4. Headquarters Address
  - 15.6.5. Key Product/Service Offered
- 15.7. Brocade (Ruckus Wireless Inc.)
  - 15.7.1. Business Overview
  - 15.7.2. Key Financials & Revenue
  - 15.7.3. Key Contact Person
  - 15.7.4. Headquarters Address
  - 15.7.5. Key Product/Service Offered
- 15.8. Firetide, Inc.
  - 15.8.1. Business Overview
  - 15.8.2. Key Financials & Revenue
  - 15.8.3. Key Contact Person
  - 15.8.4. Headquarters Address
  - 15.8.5. Key Product/Service Offered
- 15.9. HP (Aruba Networks Inc.)
  - 15.9.1. Business Overview
  - 15.9.2. Key Financials & Revenue
  - 15.9.3. Key Contact Person
  - 15.9.4. Headquarters Address
  - 15.9.5. Key Product/Service Offered
- 15.10. Unicom Systems, Inc.

- 15.10.1. Business Overview
- 15.10.2. Key Financials & Revenue
- 15.10.3. Key Contact Person
- 15.10.4. Headquarters Address
- 15.10.5. Key Product/Service Offered

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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