

UAE Wireless Mesh Network Market Segmented 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, Forecast and Opportunities, 2018-2028F

Market Report (3 business days) | 2023-10-03 | 90 pages | TechSci Research

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Report description:

The projected market size for the UAE wireless mesh network market is expected to reach USD 142.46 million by the end of 2022, with a compound annual growth rate (CAGR) of 11.85% during the forecast period. The United Arab Emirates (UAE) is a dynamic and technologically advanced nation that has been at the forefront of digital transformation and infrastructure development in the Middle East. Within this landscape, the UAE wireless mesh network market has emerged as a critical enabler of connectivity, innovation, and smart city initiatives. Spanning a wide range of applications, from urban planning and transportation to healthcare and education, wireless mesh networks have become an integral part of the UAE's vision for the future. The growth of the UAE wireless mesh network market is propelled by several key factors, starting with the nation's commitment to becoming a global leader in smart cities and digital innovation. The UAE's visionary leadership has set ambitious goals for sustainable urban development and enhanced quality of life, driving significant investments in infrastructure. Wireless mesh networks have been instrumental in realizing these objectives by providing seamless connectivity across cities, supporting the Internet of Things (IoT), and enabling real-time data exchange.

One of the prominent driving forces behind the UAE's wireless mesh network market is the emphasis on smart transportation systems. As the country develops world-class public transportation and logistics hubs, the need for reliable and efficient

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communication infrastructure has never been greater. Wireless mesh networks facilitate intelligent traffic management, vehicle-to-infrastructure communication, and passenger information systems. These technologies not only reduce congestion and enhance road safety but also contribute to the UAE's goal of achieving sustainable and eco-friendly transportation solutions. Education is another sector where wireless mesh networks have made a significant impact. The UAE's commitment to providing world-class education is reflected in the deployment of advanced technology in schools and universities. Wireless mesh networks ensure seamless internet access for students and educators, facilitating online learning, research, and collaboration. These networks are also fundamental in creating smart classrooms, enabling interactive learning experiences through IoT devices and multimedia content.

In the realm of healthcare, wireless mesh networks have proven to be a critical component in enhancing patient care and hospital operations. Medical facilities across the UAE rely on these networks to connect medical devices, track patient data, and ensure real-time communication between healthcare professionals. Whether it's telemedicine consultations or the efficient management of healthcare records, wireless mesh networks play an indispensable role in improving the quality and accessibility of healthcare services. The UAE's ambition to become a global technology and innovation hub further amplifies the importance of wireless mesh networks. These networks serve as the backbone for smart city innovations, allowing for the deployment of sensors and IoT devices that collect data for analysis and decision-making. From optimizing energy consumption to monitoring air quality and waste management, wireless mesh networks empower cities to become more sustainable, efficient, and responsive to the needs of their residents.

Furthermore, the UAE's commitment to hosting world-class events has spurred the widespread deployment of wireless mesh networks. Events like Expo 2020 Dubai have presented opportunities to showcase the capabilities of these networks on a grand scale. Millions of visitors from around the world have experienced high-speed internet access, seamless connectivity, and immersive digital experiences, all made possible through wireless mesh networks.

The technology underpinning wireless mesh networks in the UAE has also seen significant advancements. The adoption of Wi-Fi 6 and Wi-Fi 6E standards, coupled with advanced mesh networking protocols, has elevated the capacity, speed, and reliability of these networks. With multi-gigabit speeds and robust performance, wireless mesh networks are well-equipped to handle the growing demands of an increasingly connected society. Collaboration has been a cornerstone of the UAE's approach to technology deployment, with government bodies, telecommunications providers, and technology companies working together to drive innovation. These partnerships have not only facilitated large-scale deployments but have also resulted in the development of tailored solutions that address the UAE's unique connectivity challenges.

As the UAE continues its journey toward becoming a global technology and innovation leader, the wireless mesh network market is expected to grow and evolve further. The capacity to support IoT, deliver high-speed connectivity, and enable efficient infrastructure management positions wireless mesh networks as a linchpin of the UAE's digital transformation. New projects and initiatives will continue to emerge, solidifying the UAE's reputation as a trailblazer in the deployment of cutting-edge wireless mesh network solutions. In this ever-evolving landscape, wireless mesh networks are not just a technology; they are a catalyst for progress and a cornerstone of the UAE's vision for the future.

Key Market Drivers

Smart City Initiatives and Urban Development

The UAE is at the forefront of the global smart city movement, with cities like Dubai and Abu Dhabi leading the charge in adopting innovative technologies to enhance urban living. As a key component of these ambitious smart city initiatives, wireless mesh networks have emerged as a critical enabler of connectivity and data-driven urban development. One of the primary drivers of the UAE wireless mesh network market is the nation's commitment to creating sustainable and efficient cities. Wireless mesh networks play a pivotal role in achieving this goal by providing the necessary infrastructure for seamless connectivity across various smart city applications. These applications encompass intelligent traffic management systems, public safety solutions, environmental monitoring, and energy-efficient initiatives.

For instance, in Dubai's smart city projects, wireless mesh networks are deployed to connect traffic lights, cameras, and sensors, allowing for real-time traffic monitoring and optimization. This not only reduces congestion but also enhances road safety and reduces emissions. Similarly, wireless mesh networks enable efficient street lighting control systems that adjust lighting levels based on real-time conditions, further contributing to energy savings. Moreover, wireless mesh networks empower smart city

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planners to gather and analyze data from a myriad of IoT devices, creating a data-driven approach to urban management. This data informs decisions related to waste management, air quality monitoring, and infrastructure maintenance. As the UAE continues to invest heavily in smart city development, the demand for advanced wireless mesh network solutions is set to soar, making it a significant market driver.

Connectivity for IoT and Industry 4.0

The proliferation of the Internet of Things (IoT) and Industry 4.0 technologies has ignited a surge in demand for reliable and pervasive connectivity. Wireless mesh networks are playing a pivotal role in meeting this demand, making them a crucial market driver in the UAE. In the context of Industry 4.0, manufacturing and industrial facilities in the UAE are increasingly adopting wireless mesh networks to create smart factories. These networks enable seamless communication between machines, sensors, and industrial robots, optimizing production processes and enhancing overall operational efficiency. The UAE's push for industrial diversification and innovation is driving the adoption of Industry 4.0 technologies, further boosting the demand for wireless mesh networks.

Similarly, IoT applications across sectors like agriculture, healthcare, logistics, and utilities are reliant on robust wireless mesh networks to connect a multitude of devices and sensors. For instance, in agriculture, IoT sensors are used to monitor soil conditions, weather, and crop health. Wireless mesh networks ensure that data from these sensors is transmitted reliably, facilitating precision agriculture practices that improve crop yields while conserving resources. Furthermore, the healthcare sector in the UAE is witnessing the deployment of wireless mesh networks to enable remote patient monitoring and the connection of medical devices. This not only enhances patient care but also contributes to the nation's objective of becoming a global healthcare hub. As IoT and Industry 4.0 continue to gain momentum in the UAE, the demand for wireless mesh networks capable of providing extensive and reliable coverage will remain a driving force in the market's growth.

High-Quality Connectivity in Education

The UAE places a strong emphasis on education and is home to a growing number of world-class educational institutions. This focus on education is driving the adoption of wireless mesh networks, particularly in schools and universities, making it a significant market driver. Educational institutions in the UAE are leveraging wireless mesh networks to provide high-quality, ubiquitous connectivity to students and educators. These networks ensure that students have access to the internet and digital learning resources, both in classrooms and campus wide. Whether it's facilitating online classes, enabling research, or supporting collaborative learning through digital tools, wireless mesh networks are fundamental to modern education.

Moreover, the COVID-19 pandemic accelerated the need for robust online learning solutions, and wireless mesh networks played a pivotal role in enabling remote education. Many institutions in the UAE leveraged these networks to ensure that students could continue their studies uninterrupted, even from their homes. Beyond traditional education, wireless mesh networks are also supporting the deployment of smart campuses. These campuses use IoT devices and sensors to enhance security, manage energy consumption, and provide real-time information to students and faculty. For instance, smart campuses can offer location-based services, such as guiding students to their classrooms or providing information on campus events.

Expanding Healthcare Connectivity

The healthcare sector in the UAE is experiencing significant growth, with a focus on providing world-class medical services and attracting medical tourists. Wireless mesh networks are instrumental in expanding healthcare connectivity and improving patient care, making them a prominent market driver. One of the key applications of wireless mesh networks in healthcare is the enablement of telemedicine and remote patient monitoring. These networks facilitate real-time communication between healthcare providers and patients, regardless of their locations, ensuring timely access to medical expertise. Patients can consult with doctors, receive diagnoses, and monitor their health conditions from the comfort of their homes. In addition to telemedicine, wireless mesh networks enhance the operational efficiency of healthcare facilities. Hospitals and clinics in the UAE deploy these networks to connect medical devices, electronic health records (EHR) systems, and administrative tools. This connectivity streamlines healthcare processes, reduces errors, and improves the overall patient experience.

Furthermore, the UAE's commitment to becoming a global healthcare hub has led to the development of advanced healthcare facilities and medical research centers. These institutions rely on wireless mesh networks to support cutting-edge medical equipment, research projects, and data-intensive applications. The seamless connectivity provided by these networks is crucial in attracting top-tier healthcare professionals and researchers to the UAE.

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Key Market Challenges

Regulatory and Compliance Hurdles in the UAE Wireless Mesh Network Market

The UAE wireless mesh network market is witnessing significant growth and adoption, driven by the need for connectivity in smart cities, industries, and remote areas. However, amid this growth, market players face a complex regulatory environment and compliance challenges that pose hurdles to their operations and expansion plans. One of the primary challenges in the Saudi market is navigating the regulatory landscape. The government of UAE, through the Communications and Information Technology Commission (CITC), regulates the telecommunications and internet sectors. This includes the deployment and operation of wireless mesh networks. Companies entering the market must comply with CITC regulations, which can be intricate and subject to change. This regulatory complexity can lead to delays in obtaining necessary permits and approvals, impacting the timely deployment of wireless mesh networks.

Furthermore, there is a need for wireless mesh network providers to address security and data privacy regulations. The government has introduced stringent data protection laws and cybersecurity regulations to ensure the safety and privacy of citizens' data. Companies operating in UAE must invest in robust cybersecurity measures to protect their networks and adhere to these regulations. Failure to comply with data protection and cybersecurity laws can result in legal consequences and damage to a company's reputation.

Another compliance challenge in the Saudi market is related to foreign ownership restrictions. Historically, foreign companies faced limitations on the extent to which they could own and operate telecommunications infrastructure in the country. While UAE has taken steps to liberalize its market and attract foreign investment, wireless mesh network providers may still need to navigate these ownership restrictions when entering the market or forming partnerships with local entities.

Intense Competition and Price Sensitivity in the UAE Wireless Mesh Network Market

The UAE wireless mesh network market is characterized by intense competition among both domestic and international players. While this competition has led to innovation and a wide range of choices for consumers, it also presents challenges related to pricing and profitability. One of the key challenges in this competitive landscape is price sensitivity. Customers in UAE, like in many other markets, are price-conscious and seek cost-effective solutions. This puts pressure on wireless mesh network providers to offer competitive pricing while maintaining the quality and performance of their products and services. As a result, profit margins can be slim, making it challenging for providers to invest in research and development or expand their networks rapidly. In addition to price sensitivity, the market's competitive nature leads to a constant battle for market share. Providers must continually innovate and differentiate their offerings to stay ahead of competitors. This requires significant investments in product development, marketing, and customer support. The cost of acquiring and retaining customers can be high in a crowded marketplace, and providers must carefully balance these expenses against their revenue. Moreover, the Saudi market is not only competitive in terms of pricing and offerings but also in terms of technology. As the demand for wireless mesh networks grows, multiple technology providers are vying for a piece of the market. This dynamic landscape means that providers need to stay at the forefront of technological advancements to remain competitive. Being late to adopt new technologies or standards can result in a loss of market share.

Key Market Trends

Pervasive Connectivity and IoT Integration

One of the prominent trends defining the UAE wireless mesh network market is the increasing emphasis on pervasive connectivity and the integration of the Internet of Things (IoT) into various aspects of urban life and industry. The UAE is committed to becoming a global leader in smart city initiatives, and wireless mesh networks are playing a pivotal role in realizing this vision. In smart cities like Dubai and Abu Dhabi, wireless mesh networks are being deployed extensively to support a wide range of IoT applications. These applications include smart traffic management systems, environmental monitoring, waste management, public safety solutions, and energy-efficient infrastructure. The key driver behind this trend is the need for real-time data collection, analysis, and decision-making to enhance urban living, sustainability, and efficiency.

Wireless mesh networks offer the required connectivity backbone for these IoT ecosystems. They enable devices, sensors, and data points to communicate seamlessly, creating an interconnected web of information. For instance, in traffic management, wireless mesh networks connect traffic lights, cameras, and sensors to optimize traffic flow and reduce congestion. In environmental monitoring, IoT sensors collect data on air quality, temperature, and humidity, enabling proactive measures to

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address pollution and improve overall living conditions. Moreover, the UAE's focus on smart buildings and infrastructure further fuels the integration of IoT into wireless mesh networks. Smart lighting, HVAC systems, security systems, and access control are all interconnected through these networks to improve energy efficiency and security.

Wi-Fi 6 and Enhanced Connectivity

The adoption of advanced wireless technologies, particularly Wi-Fi 6 and its extended version, Wi-Fi 6E, is another significant trend shaping the UAE wireless mesh network market. Wi-Fi 6 represents a leap forward in wireless networking capabilities, offering higher speeds, increased capacity, and improved performance compared to its predecessors. In the UAE, where high-speed connectivity is crucial for various applications, including smart cities, education, and healthcare, the deployment of Wi-Fi 6 and Wi-Fi 6E is becoming increasingly prevalent. These technologies provide the necessary bandwidth and efficiency to support data-intensive applications, such as 4K streaming, virtual reality, and augmented reality. One of the driving factors behind this trend is the growing demand for seamless and high-quality wireless connectivity in public spaces, including airports, malls, and transportation hubs. Wi-Fi 6 and Wi-Fi 6E networks are capable of handling large numbers of simultaneous connections while delivering faster data speeds. This is particularly essential in crowded environments where the demand for reliable connectivity is exceptionally high.

Another important aspect of this trend is the use of Wi-Fi 6 and Wi-Fi 6E in educational institutions. Schools and universities in the UAE are upgrading their wireless infrastructure to support digital learning initiatives. With Wi-Fi 6 and Wi-Fi 6E, students and educators can access online resources, participate in virtual classrooms, and collaborate on projects with minimal disruptions. Furthermore, the integration of Wi-Fi 6 and Wi-Fi 6E in healthcare facilities enhances the delivery of telemedicine services and the connectivity of medical devices. Patients benefit from high-quality video consultations, while medical professionals can access patient records and diagnostic tools seamlessly.

5G Integration and Convergence

The convergence of wireless mesh networks with 5G technology is a transformative trend that is reshaping the UAE's connectivity landscape. The integration of 5G and wireless mesh networks offers the promise of ultra-fast, low-latency, and highly reliable wireless communication, opening new possibilities for a wide range of applications. The UAE has been at the forefront of 5G deployment, with major telecommunications providers actively rolling out 5G networks across the country. This trend aligns with the UAE's ambitions to foster innovation and drive digital transformation in various sectors, including transportation, healthcare, and smart cities.

The convergence of 5G and wireless mesh networks presents several key advantages. Firstly, it extends the reach of 5G networks, particularly in challenging environments where traditional 5G infrastructure may be limited. Wireless mesh networks act as a complementary layer, providing coverage in areas with high demand or unique connectivity needs. Secondly, the integration of 5G and wireless mesh networks enhances network capacity and reliability. Mesh networks can offload data traffic from 5G networks, reducing congestion and ensuring consistent performance, especially in crowded areas or during peak usage times. Moreover, this trend enables new applications and services that leverage the combined capabilities of 5G and wireless mesh networks. For instance, in smart transportation, autonomous vehicles can benefit from ultra-low latency 5G connectivity while seamlessly transitioning to wireless mesh networks in areas with limited 5G coverage. The convergence of 5G and wireless mesh networks is particularly relevant in industrial and enterprise settings. Manufacturers are deploying private 5G networks within their facilities for real-time monitoring and automation. These private networks can seamlessly integrate with wireless mesh networks to extend coverage and support IoT deployments.

Segmental Insights

Mesh Design Insights

Based on mesh design, the ad-hoc mesh segment in the UAE wireless mesh network market emerges as the predominant segment, exhibiting unwavering dominance projected throughout the forecast period. This segment's prominence can be attributed to several key factors that have propelled it to the forefront of the market. Ad-hoc mesh networks are characterized by their self-organizing capabilities, allowing devices to communicate directly with each other, forming a resilient and flexible network architecture. In a region as diverse and geographically challenging as the UAE, this adaptability is highly prized, making ad-hoc mesh networks the preferred choice for various applications, including smart cities, industrial automation, and public safety. Moreover, the scalability of ad-hoc mesh networks ensures that they can easily expand to cover larger areas or

accommodate more devices, further cementing their dominance in the UAE wireless mesh network market. As the demand for seamless, reliable connectivity continues to surge, the ad-hoc mesh segment will remain the driving force behind the market's growth and innovation in the foreseeable future.

Radio Frequency Insights

Based on radio frequency, the 2.4 GHZ band segment in the UAE wireless mesh network market emerges as a formidable frontrunner, exerting its dominance and shaping the market's trajectory throughout the forecast period. This dominance can be attributed to several key factors that make the 2.4 GHz band an attractive choice for wireless mesh networking. First and foremost, this frequency band offers a good balance between coverage and capacity, making it well-suited for a wide range of applications, from smart homes and offices to industrial deployments. Additionally, the 2.4 GHz band enjoys a level of global standardization and compatibility that ensures seamless interoperability among devices, a crucial factor in the UAE's diverse and interconnected ecosystem.

Furthermore, the 2.4 GHz band's ability to penetrate obstacles and offer decent range coverage is particularly advantageous in the UAE's varied terrain and urban environments, where signal propagation can be challenging. As the demand for robust and ubiquitous wireless connectivity continues to surge across the UAE, the 2.4 GHz band segment is poised to maintain its dominant position, shaping the market's growth and innovation in the coming years as it continues to meet the diverse connectivity needs of consumers and industries alike.

Regional Insights

The Abu Dhabi Region in UAE firmly establishes itself as a commanding presence within the UAE wireless mesh network market, affirming its preeminent position, and highlighting its pivotal role in shaping the industry's course. Abu Dhabi, the capital, and the largest emirate of the UAE has emerged as a beacon of technological innovation and a driving force behind the transformative power of wireless mesh networks in the nation. Abu Dhabi's dominance in this sector can be attributed to a confluence of factors that have converged to make it the epicenter of wireless mesh networking excellence within the UAE. The region's unwavering commitment to technological advancement is exemplified by its ambitious smart city initiatives, sustainable urban planning, and relentless pursuit of digital transformation. These initiatives have created a burgeoning demand for robust and adaptable wireless mesh networks, which form the bedrock of smart city infrastructure, efficient industrial automation, and the enhancement of public safety – all integral components of Abu Dhabi's strategic development agenda.

Furthermore, Abu Dhabi's substantial financial resources, coupled with a visionary approach to investments, have catalyzed the rapid expansion of wireless mesh network infrastructure. The region's commitment to fostering innovation has attracted top-tier talent and leading technology providers, further solidifying its dominant position. As a result, Abu Dhabi's profound influence reverberates throughout the UAE wireless mesh network market, shaping its trajectory and ensuring that it remains at the forefront of technological evolution in the years to come. The Abu Dhabi region's commanding presence serves as a testament to the UAE's commitment to technological excellence and its determination to lead in the global wireless mesh networking arena.

Key Market Players

Cisco Systems International BV.

Aruba Networks (HPE) LLC.

Ruckus Networks UAE LLC.

Ubiquiti Networks International FZE.

Cambium Networks Corporation (UAE)

Huawei Technologies (UAE) LLC.

Extreme Networks International FZE

D-Link Middle East FZE

Juniper Networks International FZE.

Fluidmesh Networks (UAE) FZE.

Report Scope:

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

□ UAE Wireless Mesh Network Market, By Component:

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- o Physical Appliances
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- o UAE Wireless Mesh Network Market, By Mesh Design:
 - o Infrastructure Wireless Mesh
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 - o Abu Dhabi
 - o Rest of UAE

Competitive Landscape

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

Available Customizations:

UAE wireless mesh network market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

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

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