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Wireless Broadband in Public Safety Market by Offering (Hardware, Software, Service), Technology (Mobile Wireless Broadband, Fixed Wireless Broadband, Satellite Wireless Broadband), End User, Application and Region - Global Forecast to 2029

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Abstracts

The wireless broadband in public safety market is estimated at USD 40.2 billion in 2024 to USD 126.9 billion by 2029, at a Compound Annual Growth Rate (CAGR) of 25.9%. The public safety landscape is undergoing a significant transformation due to the deployment of wireless broadband technology. This critical infrastructure empowers first responders by facilitating real-time data exchange, including vital audio and video feeds. This improved connectivity fosters a more collaborative environment between different agencies, ensuring a unified response during emergencies. Furthermore, the increased bandwidth allows for adopting advanced applications like facial recognition and gunshot detection, further enhancing situational awareness and response effectiveness. Ultimately, this integration of wireless broadband into public safety translates to expedited response times, improved first responder safety, and a demonstrably safer environment for the public.

By offering, the services segment is expected to register the highest CAGR during the forecast period.

Within the projected 2024-2029 forecast period, the services segment is anticipated to hold a higher growth rate in the wireless broadband public safety market due to several compelling factors. The increasing complexity of integrating next-generation technologies, real-time data analysis, and the Internet of Things (IoT) necessitates specialized deployment, configuration, and ongoing maintenance expertise. Public safety agencies, often constrained by limited in-house IT resources, rely on service

providers for successful implementation and management. Furthermore, the ever-evolving landscape of public safety threats necessitates service providers who can offer cutting-edge solutions tailored to specific agency needs, ensuring a continuous adaptation to the most effective tools for improved response times and overall public safety. Public safety agencies can optimize resource allocation and focus on core functionalities by outsourcing services related to wireless broadband infrastructure and network management. Additionally, service providers offer cost-effective and scalable solutions, allowing agencies to manage budgets efficiently while ensuring a robust technology infrastructure. In conclusion, the dominance of the services segment stems from its ability to address the growing complexity of public safety technology, the evolving nature of public safety needs, and the desire for optimized resource allocation and cost-effectiveness within public safety agencies.

Mobile wireless broadband is expected to hold the largest market size during the forecast period. Driven by its widespread availability, inherent flexibility, and ongoing technological advancements, mobile wireless broadband is poised to capture the largest market share within the wireless broadband segment of the public safety market during the forecast period 2024-2029. The existing infrastructure of mobile networks eliminates the need for extensive development, while the portability of mobile devices empowers first responders with real-time communication and data exchange in any situation. Furthermore, advancements such as 4G LTE and 5G guarantee high bandwidth and dependable connections, critical for transmitting vital data like video feeds and sensor information. Moreover, significant investments by governments and public safety agencies in mobile communication infrastructure make it a cost-effective solution. Finally, the expanding landscape of applications encompassing remote medical care, real-time crime center updates, and drone surveillance further highlights the overall value proposition of mobile broadband in the public safety domain. Consequently, while localized solutions like Wi-Fi might offer superior speeds, mobile broadband's pervasiveness and adaptability solidify its position as the dominant technology for the foreseeable future.

Asia Pacific is estimated to have the highest growth rate during the forecast period.

The Asia Pacific region is estimated to experience the most significant growth in the wireless broadband for public safety market during the 2024-2029 forecast period. This anticipated surge stems from a confluence of factors. Firstly, the rapid increase of mobile devices and expanding cellular networks across the region creates a robust foundation for deploying wireless broadband in public safety applications. Secondly, governments throughout the Asia Pacific increasingly prioritize public safety, leading to investments in advanced communication technologies for first responders. This focus on improved response times is further fueled by the growing populations and urbanization within the region, highlighting the need for faster and more efficient emergency response. Wireless broadband technology directly addresses this need by enabling real-time data sharing, improved situational awareness, and enhanced coordination among first responders during critical situations. Additionally, the ongoing rollout of 5G networks across the Asia Pacific offers the advantage of ultra-fast speeds and minimal latency, perfectly suited for bandwidth-intensive public safety applications such as video streaming and real-time data transfer. Finally, the evolving threat landscape, characterized by increased natural disasters and complex security situations, necessitates improved communication and coordination among public safety agencies. Wireless broadband provides a dependable platform for information sharing and fosters a state of greater preparedness, ultimately propelling the Asia Pacific region to the forefront of the wireless broadband in public safety market's growth trajectory.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the wireless broadband in public safety market.

By Company Type: Tier 1 – 62%, Tier 2 – 23%, and Tier 3 – 15%

By Designation: C-level –38%, D-level – 30%, and Others – 22%

By Region: North America – 40%, Europe – 15%, Asia Pacific – 35%, and Rest of the World – 10%.

The major players in the wireless broadband in public safety market are AT&T (US), Verizon Communications Inc (US), Cisco Systems, Inc (US), Ericsson (Sweden), Huawei Technologies Co. Ltd (China), Broadcom (US), HPE Aruba Networks (US), Extreme Networks (US), Juniper Networks (US), Motorola Solutions (US), NEC Corporation (Japan), Netgear, Inc (US), Semtech Corporation (US), ZTE Corporation (China), General Dynamics Corporation (US), L3Harris Technologies, Inc (US), Bittium Corporation (Finland), Hughes Network Systems, LLC (US), Hytera Communications Corporation (China), Cambium Networks Limited (US), Infinet Wireless (Netherlands), Netronics Networks (Canada), Proxim Wireless (US), Radwin (Israel), Aviat Networks, Inc (US), Knightscope (US), Parallel Wireless (US). These players have adopted various growth strategies, such as partnerships, agreements and collaborations, new product launches, enhancements, and acquisitions to expand their wireless broadband in public safety market footprint.

Research Coverage

The market study covers wireless broadband in public safety market size across different segments. It aims at estimating the market size and the growth potential across different segments, including offering (hardware, software, service), technology (mobile wireless broadband, fixed wireless broadband, satellite wireless broadband), end user (first responders, critical infrastructure operators, other end users), application (critical communications, video surveillance and monitoring, automated vehicle tracking, geographic information system, other applications) and Region (North America, Europe, Asia Pacific, Middle East & Africa, and Latin America). The study includes an in-depth competitive analysis of the leading market players, their company profiles, key observations related to product and business offerings, recent developments, and market strategies.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants with information on the closest approximations of the global wireless broadband in public safety market's revenue numbers and subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. Moreover, the report will provide insights for stakeholders to understand the market's pulse and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

1. Analysis of key drivers (Rise in demand for intelligent public transportation systems, including real-time transit information of passengers, increase in adoption of smartphones and other handheld devices has led to a rise in connectivity and usage of advertising and information systems, advancements in the technological solutions to enhance passenger experience), restraints (high costs involved in implementing and maintaining the passenger information systems), opportunities (adoption of IoT, 5G, and automation technologies to enhance technological optimization), and challenges (complexities in the integration over the legacy infrastructure and communication networks, multiple sensors and touchpoints pose data fusion challenges) influencing the growth of the wireless broadband in public safety market.

2. Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the wireless broadband in public safety market.

3. Market Development: Comprehensive information about lucrative markets – the report analyses the wireless broadband in public safety market across various regions.

4. Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the wireless broadband in public safety market.

5. Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading companies including AT&T (US), Verizon Communications Inc (US), Cisco Systems, Inc (US), Ericsson (Sweden), Huawei Technologies Co. Ltd (China), Broadcom (US), HPE Aruba Networks (US), Extreme Networks (US), Juniper Networks (US), Motorola Solutions (US), NEC Corporation (Japan), Netgear, Inc (US), Semtech Corporation (US), ZTE Corporation (China), General Dynamics Corporation (US), L3Harris Technologies, Inc (US), Bittium Corporation (Finland), Hughes Network Systems, LLC (US), Hytera Communications Corporation (China), Cambium Networks Limited (US), Infinet Wireless (Netherlands), Netronics Networks (Canada), Proxim Wireless (US), Radwin (Israel), Aviat Networks, Inc (US), Knightscope (US), Parallel Wireless (US).

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*Details on Business overview, Products/Solutions/Services offered, Recent developments, MnM view, Right to win, Strategic choices made, and Weaknesses and Competitive threats might not be captured in case of unlisted companies.

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