

Land Professional Mobile Radio - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The Land Professional Mobile Radio Market size is estimated at USD 24.40 billion in 2024, and is expected to reach USD 45.49 billion by 2029, growing at a CAGR of 11.07% during the forecast period (2024-2029).

Key Highlights

- The market is proliferating due to the rapidly increasing focus on improving communication technologies among law enforcement agencies and public safety organizations. Moreover, land professional mobile radio systems are also majorly used in transportation, manufacturing, utilities, healthcare, and other industry verticals.
- Land professional mobile radio is also in high demand due to continuously rising quick and secure transmissions in various environments. Moreover, many mission-critical communications technologies support law enforcement organizations to stream video and access real-time data. Therefore, it also helps improve decision-making capabilities by incorporating video streaming and data applications.
- The growing government aid through investments and collaborations to boost the adoption of professional land radios is analyzed to boost the demand, thereby contributing to the market growth rate. For instance, in March 2023, A document on land mobile radio (LMR) for IT professionals was developed by CISA, SAFECOM, and the National Council of Statewide Interoperability Coordinators to explore how public safety organizations implement LMR technologies, provide best practices for LMR system implementation and integration, address some LMR operational and maintenance issues, and discuss possible disconnects between IT professionals and LMR engineers.
- Moreover, many major vendors in this market are continuously innovating their products to create a distinct differentiation from their competitors and indulging in partnership activities, which is expected to broaden the reach of the market over the forecast period.
- There are several constraints and challenges faced by the land professional mobile radio market due to the spectrum bandwidth

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limitation. To overcome these difficulties and guarantee the continuous expansion and effectiveness of PMR systems, efforts to resolve these constraints through appropriate spectrum allocation, harmonization, and technology developments are essential.

- The integration of long-term evolution (LTE) with LMRs is also gaining traction, as the importance of integration, instead of substitution, is greater. Despite the development of LTE fallback standards, land mobile radio technology will remain valuable for its variety of failsafe options to maintain communications even if network components are damaged or out of service.
- At the same time, their situational awareness and ability to respond to emergencies are being improved by technology. For example, purpose-built applications to store information on dangerous materials or patient monitoring devices fall into this category. These applications demonstrate the need for first responders to talk at all times and that they should also exchange information such as text, pictures, or even additional elements of information. These factors essentially contribute to the market growth rate during the forecast period.

Land Professional Mobile Radio Market Trends

Military and Defense Application Type Segment is Expected to Hold Significant Market Share

- The military and defense sector has always been at the forefront of technological advancements. In recent years, the proliferation of land mobile radios (LMRs) has significantly transformed how armed forces operate. LMRs, also known as two-way radios, have revolutionized communication capabilities on the battlefield and have become a critical tool for the military and defense sectors.
- Effective communication is the backbone of any successful military operation. LMRs offer reliable, secure, real-time communication channels that enable seamless coordination between units, including infantry, armored divisions, and support teams. Unlike traditional radios, LMRs provide encrypted channels, ensuring secure communication even in hostile environments.
- LMRs allow military personnel to exchange vital information, relay orders, and request immediate support. The ability to communicate without relying on vulnerable communication infrastructure, such as cellular networks, makes LMRs an essential asset in remote and challenging terrains. This improved communication not only enhances operational efficiency but also ensures the safety of troops by enabling rapid response and situational awareness.
- According to the North Atlantic Treaty Organization (NATO), military and defense expenditures have increased. For example, in 2022, the United States spent USD 821.83 billion, reaching USD 860 billion in 2023. This is expected to make a favorable impact on the market studied.
- LMRs have witnessed significant technological advancements driven by the increasing military and defense sector demands. Manufacturers are incorporating features such as GPS tracking, Bluetooth connectivity, and integration with data networks to enhance the functionality and versatility of LMRs. This enables real-time location tracking, data transmission, and command and control systems integration.
- Additionally, the integration of voice recognition and artificial intelligence capabilities holds promise for further enhancing the capabilities of LMRs, allowing for hands-free operation and intelligent voice-based commands. The growth of the military and defense sector owes much to the widespread adoption of LMRs in the market.

Europe is Expected to Hold Significant Market Share

- In Europe, perpendicular magnetic recording (PMR) technology has been increasingly adopted in countries such as Germany, France, Italy, and others to support critical communication needs. The most used PMR standard in Europe is the terrestrial trunked radio (TETRA). TETRA provides efficient voice and data communication capabilities and is widely adopted by the defense sector in various European countries.

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- PMR systems have played a crucial role in public safety and emergency services. Police, fire departments, and other emergency response organizations rely on PMR networks for effective communication during critical situations. These systems provide dedicated channels, encryption capabilities, and group communication features that ensure secure and reliable communication during emergencies. Looking at these benefits, many countries in the European region are deploying PMR systems.
- For instance, German Navy invested in new mission-critical communication networks from Motorola Solutions to provide secure digital radio communications for 16 naval vessels and training platforms for the German Navy to support onboard security teams responsible for the safety of crews at sea and the operational readiness of naval vessels.
- Moreover, many companies in the European region have a manufacturing sector hub and extensive use of PMR systems in industrial and manufacturing facilities. They facilitate communication among workers, supervisors, and maintenance teams, ensuring smooth operations, enhanced productivity, and swift response to incidents or emergencies. PMR networks are precious in large-scale factories, warehouses, and construction sites.
- The growing use of PMR in European countries can be attributed to the need for secure, reliable, and dedicated communication systems in diverse sectors. PMR technology continues to evolve, offering advanced features like digital voice communication, data transmission, and integration with other technologies, further expanding its applications and benefits across industries.

Land Professional Mobile Radio Industry Overview

The land professional mobile radio market is highly competitive with the presence of major players like Hytera Communications, Corporation Ltd, ICOM Inc., L3Harris Technologies, Inc., Leonardo SpA, and Motorola Solutions, Inc. Players in the market are adopting strategies such as partnerships, agreements, and acquisitions to enhance their product offerings and gain sustainable competitive advantage.

In October 2022, SimocoSolutions forged an exclusive distribution agreement with ExcelerateTechnology to establish a partnership to introduce Internet-of-Things (IoT), LTE, and satellite products into the Australasia region. Excelerate, a worldwide provider of hybrid LTE and satellite connectivity, offers solutions that ensure dependable communication even in locations where traditional options are unavailable. This groundbreaking technology plays a crucial role in areas lacking terrestrial communication services, experiencing congestion, facing threats, or encountering disruptions.

In August 2022, Motorola Solutions introduced WAVE PTX in Brazil, a broadband-based instant communication service that provides comprehensive coverage across the country regardless of the network technology used. WAVE PTX enables seamless and dependable connectivity between various work teams within organizations, ensuring continuous operations and maximizing productivity levels.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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