

Software Defined Radio Market to Reach USD 29.78 Bn by 2031 Fueled by Defense Modernization & 5G | Mordor Intelligence

Software Defined Radio Market is expanding due to rising adoption across defense, aerospace and public safety, with North America leading the global market.

HYDERABAD, TELANGANA, INDIA, July 10, 2026 /EINPresswire.com/ -- According to Mordor Intelligence, the [software defined radio market size](#) is projected to grow from USD 21.33 billion in 2026 to USD 29.78 billion by 2031, registering a 6.9% CAGR. Growth is being fueled by rising investments in defense modernization, expanding 5G and private network deployments, and increasing demand for flexible, software-driven communication systems. While North America remains the leading market due to strong defense spending, Asia-Pacific is witnessing rapid growth supported by large-scale 5G expansion and higher military investments.

Software Defined Radio Market Key Growth Factors

Expanding 5G and Private Wireless Networks Drive Demand for Advanced Radio Infrastructure

The rapid expansion of private 5G networks is increasing demand for software-defined radios across industrial facilities, ports, and enterprise campuses. These radios offer the flexibility to support multiple frequency bands and communication standards through software updates, reducing infrastructure complexity and improving operational efficiency. Their ability to seamlessly connect terrestrial and satellite networks is also expanding their adoption across both commercial and industrial communication environments.

Shift Toward Network-Centric Warfare Accelerates Next-Generation SDR Adoption

The growing focus on network-centric defense operations is driving the adoption of software-defined radios across military forces. Modern defense communication systems require flexible radios that can quickly adapt to changing mission needs, support secure data sharing, and operate across multiple platforms. As governments continue to modernize their defense capabilities, software-defined radios are becoming an essential component of advanced military and homeland security communication networks.

Software Defined Radio Market Recent Industry Developments

June 2026: Anritsu launched a software-defined radio solution integrating advanced RF hardware and software capabilities to support wideband signal processing, radio testing, and next-generation communication research. The development reflects the industry's growing focus on flexible SDR platforms that enable faster experimentation, system validation, and adaptation across emerging wireless technologies.

February 2026: Emerson introduced an upgraded software-defined radio platform designed for applications including radar, satellite communications, and advanced wireless research. The development highlights increasing investments in high-performance SDR solutions that provide enhanced frequency coverage, multi-channel capabilities, and software-based flexibility for aerospace, defense, and communication system developers.

Software Defined Radio Market Segmentation Insights

By Platform – Land, Sea, Air, Space

By Component – Hardware, Software

By Frequency Band - High Frequency (HF), Very High Frequency (VHF), Ultra-High Frequency (UHF), Super High Frequency (SHF), Extremely High Frequency (EHF) and mmWave

By End-user - Government and Defense, Commercial,

By Geography - North America, Europe, Asia-Pacific, South America, Middle East and Africa

"Mordor Intelligence's Software Defined Radio Market report provides decision-makers with a balanced view of market developments, supported by structured research practices and analysis of industry trends. Its consistent methodology helps stakeholders evaluate opportunities with confidence beyond fragmented market information. " Says, Phani Kumar, Senior Research Manager, Mordor Intelligence.

Software Defined Radio Market Regional Insights

North America continues to hold a strong position in the software-defined radio market, supported by defense modernization programs, private wireless network adoption, and advancements in secure communication technologies.

Meanwhile, Asia-Pacific is emerging as a high-growth region due to rising defense investments, expanding 5G infrastructure, and increasing adoption of advanced communication systems across military and commercial applications.

The Software Defined Radio Market report is also available in the following languages:

Japanese: https://www.mordorintelligence.com/ja/industry-reports/software-defined-radio-market?utm_source=einpr

French: https://www.mordorintelligence.com/fr/industry-reports/software-defined-radio-market?utm_source=einpr

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Software Defined Radio Market Competitive Landscape

BAE Systems plc

L3Harris Technologies, Inc.

Northrop Grumman Corporation

RTX Corporation

Thales Group

Elbit Systems Ltd.

General Dynamics Corporation

Leonardo S.p.A

Rafael Advanced Defense Systems Ltd.

ASELSAN A.Ş.

Israel Aerospace Industries Ltd.

Ultra Electronics Group

Rohde & Schwarz GmbH and Co. KG

Curtiss-Wright Corporation

Keysight Technologies, Inc.

National Instruments Corporation (Emerson Electric Co.)

Ettus Research

FlexRadio

Discover the latest trends, growth opportunities, and competitive developments in the Software Defined Radio Market: https://www.mordorintelligence.com/industry-reports/software-defined-radio-market?utm_source=einpr

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Electric Vehicle Battery Swapping Market Size: The electric vehicle battery swapping market is expected to expand from USD 2.08 billion in 2026 to USD 7.33 billion by 2031, registering a CAGR of 28.61%. Market growth is being driven by the rapid adoption of electric vehicles, increasing demand for faster energy replenishment solutions, expanding battery-swapping networks, and stronger collaborations between automakers and energy companies aimed at enhancing convenience and operational efficiency.

Get More Information: https://www.mordorintelligence.com/industry-reports/electric-vehicle-battery-swapping-market?utm_source=einpr

Motor Home Market: The motor home market is projected to grow from USD 15.44 billion in 2026 to USD 23.23 billion by 2031, registering a CAGR of 8.51% during 2026–2031. This growth is driven by increasing adoption of advanced communication technologies, rising investments in digital infrastructure, expanding demand for secure and reliable connectivity solutions, and the growing integration of automation and smart technologies across industries. The market is expected to witness strong momentum as organizations continue upgrading their systems to support next-generation communication requirements.

Dirt Bike Market: The dirt bike market is projected to grow from USD 10.28 billion in 2026 to USD 13.57 billion by 2031, registering a CAGR of 5.70% during 2026–2031. The market growth is driven by increasing interest in recreational off-road activities, rising participation in adventure sports, technological advancements in dirt bike design, and growing demand for high-performance motorcycles. Expanding motorsports events, improved product innovations, and the availability of electric dirt bikes are further supporting market expansion.

Get More information: https://www.mordorintelligence.com/industry-reports/dirt-bike-market?utm_source=einpr

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