Global Software Defined Radio Market: Information by Component (Transmitter, Receiver, Software, Auxiliary System), Frequency Band (HF, VHF, UHF), Platform (Land, Airborne, Naval, Space), Application (Defense, Commercial), and Region—Forecast till 2023

Market Snapshot
The global software defined radio market is expected to register a CAGR of 8.34% during the forecast period. The concept of software defined radio is old, although, in the last few years, this market has witnessed significant growth due to advancements in technology and the development of digital electronics. A software defined radio is a type of radio transmission system where transmission of data or information is carried out using the software on an embedded system or personal computer. The hardware components, such as filters, amplifiers, mixers, detectors, demodulators, and modulators, are replaced by embedded systems. In software defined radios, after the data from a source is changed into a digital format, the secondary activities involved in radio communications are done with the help of software-driven automated functions. A software defined radio is also capable of transmitting and receiving a range of frequencies.

North America is expected to be a prominent market for software defined radios due to the presence of major manufacturers, such as Elbit Systems, General Dynamics, Harris Corporation, Northrop Grumman Corporation, and Collins Aerospace. Europe is expected to be the second-largest market due to the increasing adoption of software defined radios by government agencies in the region. Moreover, Asia-Pacific held the third-largest share of the global software defined radio market in 2017. This is due to increasing defense expenditure in developing countries such as China and India.
The increase in military spending and focus on improving military communication systems are some of the key drivers for the growth of the global software defined radio market. North America accounted for 36.63% of the global software defined radio market in 2017, followed by Europe with a 27.14% market share.

**Synopsis**

The global software defined radio market has been segmented based on component, frequency band, platform, application, and region. By component, the market has been classified as transmitter, receiver, software, and auxiliary system. On the basis of frequency band, the market has been categorized as HF, VHF, and UHF. The platform segments of the market are land, airborne, naval, and space. Based on application, the market has been classified as defense and commercial.

**Regional Analysis**
The global software defined radio market has been segmented, by region, into Asia-Pacific, North America, Europe, the Middle East, and Latin America. North America accounted for the largest market share in 2018. The region leads in global military expenditure and technological advancements, which has resulted in a high demand for software defined radios. Although Canada invests in the development of software defined radios, the regional market is primarily dependent on the US. It is estimated that the software defined radio market in North America would register a CAGR of 8.54% during the forecast period.

The transmitter segment is expected to dominate the market.

Transmitters are used to generate and transmit electromagnetic waves carrying signals or messages. They also enable the broadcasting of large amounts of data over long distances by modulating the frequency. The transmitter segment accounted for the largest market share of 59.38% in 2017, with a market value of USD 10,428.6 million.

Companies Covered

The key players in the global software defined radio market are BAE Systems (UK), Elbit Systems (US), General Dynamics (US), Harris Corporation (US), Leonardo (Italy), Northrop Grumman Corporation (US), Collins Aerospace (US), Rohde & Schwarz (Germany), Thales Group (France), and Viasat, Inc. (US).

Key Developments

- In September 2018, BAE Systems signed a contract with the US Navy to provide Data Link Solutions for the upgradation of radio systems.
- In August 2018, Harris Corporation introduced its new dual-mode TP3000 series radios, powered by Tait, that enhance safety and security and offer an affordable migration path from analog to digital.
- In December 2017, General Dynamics Mission Systems signed an indefinite-delivery, indefinite-quantity contract to provide high-frequency distribution amplifier group components, spare parts, and engineering services to support continued fielding and maintenance plans of the AN/USC-61 (C), a software defined radio system.
- In April 2016, Elbit Systems Ltd received a contract worth USD 20 million to supply tactical mobile radios to an unidentified Western European country.

Market Segmentation

By Component: Transmitter, Receiver, Software, and Auxiliary System
By Frequency Band: HF, VHF, and UHF
By Platform: Land, Airborne, Naval, and Space
By Application: Defense and Commercial
By Region: North America, Europe, Asia-Pacific, the Middle East, and Latin America

Key questions addressed by the report

- What was the historic market size (2017)?
- Which segmentation (Capability/Deployment/End User) is driving market growth?
- What will be the growth rate from 2018 to 2023?
- Who are the key players in this market?
- What are the strategies adopted by the key players?
Global Software Defined Radio Market is projected to grow at a CAGR of 8.34%, during the forecast period 2018-2023.

GLOBAL SOFTWARE DEFINED RADIO MARKET SHARE IN 2017

Major Players
- GENERAL DYNAMICS
- THALES
- LEONARDO
- BAE SYSTEMS

Driving Factors
- Increasing military spending
- Focus on improving military communication systems

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