Global Software Defined Radio Market Report Information by Component (Software, Transmitter, Receiver, Auxiliary System), Platform (Land, Airborne, Naval, Space), by Frequency Band (VHF, UHF, HF), & by Region - Forecast to 2023

Market Scenario

The concept of Software Defined Radio (SDR) is old, although in the last few years, this market has gone through many changes in terms of use and technology. Moreover, digital electronics technology and communication technologies have evolved in the radio market. SDR is a type of radio transmission system where transmission is carried out by the use of software on an embedded system or personal computer. Hardware components, such as filters, amplifiers, detectors, mixers, demodulators, and modulators, are now replaced by embedded systems. SDR is capable of transmitting and receiving a long range of frequency. When the data from a source is changed into digital format, the secondary activities involved in radio communications are done with the help of software-driven automated functions.

SDR modifies the tactical information system as embedded software. This software is further used in SDR to assist in the selection of the dynamic of transmission channel. Rise in the number of digital service users result in the improved adoption rate of software defined radio. The demand for SDRs will increase in the coming years, owing to the increase in the efficiency and cost-effectiveness of the SDR products provided by companies. The SDR manufacturing industry has modified its systems from analog to digital. Due to this reason, the advanced capabilities of digital radio are expected to drive the growth of the SDR market. Companies undergo multiple regulations from government, which govern the SDR market, and this impacts the market growth and trends.

The software defined radio market for communication has a great scope across various applications. As far as SDR market is concerned, the market is expected to dominate in terms of upcoming radio innovations and technologies. The rise in demand for reliable transmission devices plays a crucial role in the growth of this market. Software defined radio gives various advantages of interoperability, flexibility, and re-configurability, which serve as a larger advantage for its deployment in commercial and homeland security.

Based on platform, the land segment is expected to dominate the software defined radio market, due to the predominant use of software defined radios for tactical military transmission in the defense sector. Latest software defined radios consist of wideband network waveform with the facility to provide mobile network connectivity across the battle space.

The software defined radio market has been categorized and studied on the basis of component, such as transmitter, receiver, software and an auxiliary system. The software component segment is estimated to have the highest growth rate due to the demand for latest software defined radios. An upgrade in the software makes systems capable with new waveforms without the requirement for new hardware.

The software defined radio market is segmented on the basis of frequency band into Very High Frequency (VHF), Ultra High Frequency (UHF), and High Frequency (HF). The UHF band segment is expected to hold the highest growth rate due to the rising usage of this frequency band for telecommunication in commercial applications. UHF band is used for
transmission in transportation applications, such as civilian air traffic controls and intelligent transportation systems.

The SDR technology also provides several benefits as compared to hardware-oriented approaches, such as field programmable gate array and digital signal processor solutions, and is expected to gear up the software defined radio market growth over the next few years. Rise in smartphone usage, along with technological development, is also expected to drive the software defined radio market growth throughout the forecast period. The rise in the number of wireless connected devices provides avenues for the market growth.

The software defined radio market to witness a CAGR of more than 11% during the forecast period 2017-2023.

Software Defined Radio Market, By Segmentation

Countries in the Asia Pacific region, such as China, India, South Korea, and Japan, are increasingly investing in the research and development of their tactical communication capabilities. Asia Pacific is also experiencing high usage rate of 4G networks. The large-scale installation of new 4G towers and upgradation of older towers in Asia Pacific region will support high-speed 4G LTE networks.

Military modernization programs are being initiated by several countries, such as South Korea, India, Germany, Japan, and the U.S. The issues faced in the consolidation of the various sub-systems is a challenge to the SDR market.

Key Players

The key players in the software defined radio market are ASELSAN (Turkey), BAE Systems (U.K), Thales Group (France), Rockwell Collins (U.S.), General Dynamics Corporation (U.S.), Elbit Systems (Israel), Leonardo G.p.A (Italy), Northrop Grumman (U.S.), Harris Corporation (U.S.), and ROHDE & SCHWARZ (Germany).

The report for Global Software Defined Radio Market of Market Research Future comprises of extensive primary research along with the detailed analysis of qualitative as well as quantitative aspects by various industry experts, key opinion leaders to gain the deeper insight of the market and industry performance. The report gives the clear picture of current market scenario which includes historical and projected market size in terms of value and volume, technological advancement, macro economical and governing factors in the market. The report provides details information and strategies of the top key players in the industry. The report also gives a broad study of the different market segments and regions.
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