

Software Defined Radio Communication Market by Component (FPGA, DSP, GPP, PSOC, Amplifier, and Software), Application (Military, Telecommunication, Short Range, Positioning, Transportation, and Public Safety), & Geography - Analysis & Forecast to 2014 - 2020

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Abstracts

The software defined radio market report analyzes the key trends in the market on the basis of the demand in the military, homeland security, and commercial applications. The report provides an in depth analysis of the various developments going on in this market, along with the key market trends. The component market of 'software defined radio' has been segmented on the basis of different types of components such as digital signal processor, field programmable gate array, general purpose processor, programmable system on chip, amplifier, software, and others.

The software defined radio market also covers the market shares of different industry players present in market. All the revenue estimates and forecasts in this report are provided from 2014 to 2020. The report gives an overview of the major geographic regions in the software defined radio market; such as Americas, Europe, Asia–Pacific (APAC), and the Rest of the World (RoW). The report discusses about the recent happenings in the market and the impact analysis of the market dynamics.

The penetration of the software defined radio in the commercial, military, and public safety applications has been tremendous, due to its ability to provide interoperability, flexibility, and configurability to the communication systems. One of the major reasons for the high demand of the software defined radio is the increasing security concern worldwide, which requires excellent communication devices. Software defined radios

are capable of fulfilling this requirement by providing a system that is compatible with the network standards and offers ubiquitous connectivity.

The major market for the software defined radio lies in the European and American countries; such as U.K., the U.S., Germany, and France, among others. However, Japan and other Asian countries are following the market with comparatively higher growth rate. Some of the major players in the software defined radio market are Rockwell Collins Inc. (U.S.), ITT Corporation (U.S.), BAE Systems Plc. (U.K.), Northrop Grumman Corporation (U.S.), Harris Corporation (U.S.), Thales Defense & Security Inc. (U.S.), Flex Radio Systems Inc. (U.S.), Datasoft Corporation (U.S.), L-3 Communication Holdings Inc. (U.S.), and Raytheon Co. (U.S.).

This report focuses on providing detailed segmentation of the software defined radio market, combined with qualitative and quantitative analysis of each and every aspect of the classification, on the basis of the component type, application, industry verticals, and geography. All the numbers at every level of detail are forecasted till 2020, to give a glimpse of the potential market size in terms of value, in this market.

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About

SDRs can be defined as a communication system where the features of the communication system can be reconfigured and updated by changing the software. The SDR traces its history to early 1980s, when E Systems, Inc. (U.S.) which is now part of the Raytheon Company (U.S.) introduced the term „software radio? in their company newsletter. But the developments in the SDRs started taking place in the early 1990s with the military program DARPA?s introduction of the “SPEAKeasy” project, which was aimed to have a radio which could support large number of military radio procedures or protocols. The year 1996 saw the foundation of “The Modular Multifunction Information Transfer System (MMITS) Forum”, which was founded to focus on the developments of the SDRs, it is now known as the “Wireless Innovation Forum”. This forum takes initiatives and organizes events so as to provide its support to the pioneering use of spectrum and advanced radio technologies.

The need for effective communication systems in various applications such as military, telecommunication, and public safety/civilian government are driving the growth of this market. There are various research and development organizations which are working toward the development of SDRs. Some of the research programs are the research US Joint Tactical Radio System (JTRS) program, SPEAKeasy radio program, and European Secure SDR (ESSOR). The ability of SDR to provide upgradeable, flexible radio equipment to the civilian and military is a prominent factor that is driving its growth. The adaptability of SDR in cellular base stations is also an attractive prospect for the growth of this market.

The SDR market was valued at \$XX billion in 2013 and is expected to reach up to \$XX billion by 2020, at a CAGR of XX% from 2014 to 2020. The lucrative opportunity for the future lies in the demand of secure communication devices in the military, public safety, and telecommunication infrastructure applications. Growing commercial applications of SDRs; their increasing use in emerging countries; and the benefits that they provide, such as upgradability, re-usability, and re-configurability are some of the factors that are driving the growth of the SDR market.

In this report, the SDR market has been segmented on the basis of the components, applications, and geographies. All the three market segments are also analyzed on the basis of the market trends across the four geographic regions considered in the study.

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