

Software Defined Radio Market Size, Share & Trends Analysis Report By Type, By Component, By Frequency Band, By Platform, By End Use, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Software Defined Radio Market Growth & Trends

The global software defined radio market size is anticipated to reach USD 47.74 billion by 2030, registering an estimated CAGR of 8.2% from 2022 to 2030, according to a new report by Grand View Research, Inc. Software defined radio (SDR) is a technology that aids in the transmission and reception of high-frequency signals over long distances. It offers benefits while resolving spectrum and wireless communication restrictions. Furthermore, the technology has progressed to the point that software defined radio systems with large bandwidth applications that provide high-quality services are now possible. Countries with a significant modern military presence like the U.S., Japan, Germany, South Korea, and Australia are upgrading their communication systems by integrating software defined radio as the new norm.

In the near future, the market is expected to be used as a reliable and day-to-day technology for delivering telecommunication services such as video streaming channels, digital TV, and radio broadcasts. Software defined radio is available in two forms: modulation with a wide frequency range and waveform with an agile frequency range. As software defined radio does not involve any hardware upgrades, the former is more commonly utilized. This technique is also applied in modern wireless mobile systems. A carrier frequency within the set range is required for frequency selection, which is usually accomplished using a local oscillator. Furthermore, software defined

radio is rapidly being used for 5G mobile network trials in the 3.5 GHz and 25 GHz spectrum bands, which is expected to generate attractive prospects for industry competitors.

Software defined radio applications are in demand by the growing requirement for efficient transmission devices. The reconfigurability and interoperability of software defined radio (SDR) for various applications are driving its commercial expansion. The data center market in Europe is expected to grow at a high rate, owing to the growing requirement for data centers to address data flow challenges. Due to an expansion in LTE/4G and wireless services offered by telecom firms, the market is booming. Extensive research and development spending in nations like Australia, Russia, and the United States is more likely to result in efficient services from important companies over the forecast period.

Software Defined Radio Market Report Highlights

Over the forecast period, the software segment is expected to have the greatest CAGR of 8.5%. This is due to the growing use of SDR in software radio access networks (RANs), which are comprised of a single hardware platform that supports a variety of wireless communication standards and protocols

Due to the increasing application of software defined radio in aerospace and satellite communications, the UHF band frequency category is predicted to grow at a CAGR of 9.2% throughout the projection period

Due to the adoption of SDRs in health monitoring systems such as Wireless Body Area Networks, commercial is expected to be the fastest-growing end-use segment (WBAN) with a CAGR of 9.4%

The use of SDRs by government agencies for the building of communication networks such as the Chinese government's Government Radio Network (GRN) in Beijing is expected to drive significant growth in the Asia Pacific market

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