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Abstract

The drastic escalation in the ways and means by which user need to exchange information, replacing RF unit effortlessly and cost-reduction has become important. Software Defined Radio (SDR) tools provides the flexibility, price competence and influence to make communications possible, with extensive accomplishment benefits offered by the RF operators and manufacturers. It has several advantages which can be useful in business development, as they do not need to set up the whole hardware again and again they just need to set up the

hardware once and every time as the technology changes only software up gradation will be required. Initially it is costly at the installation level but after installation it is cheap for long time end users.

References

- Burns, Paul (2003), Software defined radio for 3G. Boston: Artech House.
- Yeung, K. S. ; Chan, S. C. , "The design and multiplier-less realization of software radio receivers with reduced system delay", Regular papers, IEEE Transaction On Circuits and Systems.
- F. K. Joundral,"a technique for SDR implementation", in software Defined radio – Enabling Technologies, W. Tuttlebee.
- "Software communications architecture specification, jtrs-5000sca v3. 0," Joint Tactical radio system (JTRS) joint program office, available online on http://jtrs. army. mil.
- T. Hentschel and G. Fettweis, "sample rate conversion for software radio," IEEE Commun. Mag. , vol. 38, no. 8, pp – 142-151.
- A. Wiesler and F. K. Jondral, "A software radio for second and third generation mobile system," IEEE Trans. Veh. Technology.
- H. Harda and R. Prasad, Simulation and Software radio for Mobile Communications,, Artech House, Boston, Mass, USA.
- J. Mitola III and Z. Zvonar, Eds. , Software Radio Technologies: Selected Readings, John Wiley & Sons, New York, NY, USA.
- J. Mitola III and W. Tuttlebee, Eds. , Software Defined Radio: Origins, Drivers and International perspectives, John Wiley & Sons, Chichester, UK.
- J. Reed, Software Radio – a Modern Approach to Radio Engineering.
- "Software Defined Radio Forum, " available online on http://www. sdrforum. org. .
- Naund. com/bladeRF X-40 the USB 3. 0 Superspeed Software Defined Radio.

Index Terms

Computer Science Wireless

Keywords

Gnu; Sca; Sdr; Usrp