A Blog Article by

Geek Must Have

SDR Radio Tales of Woe

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Version 2.1b, 01/05/2021

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Software-defined radio [SDR] is a radio communication system where components that have been traditionally implemented in hardware (e.g. mixers, filters, amplifiers, modulators/demodulators, detectors, etc.) are instead implemented by means of software on a personal computer or embedded system. While the concept of SDR is not new, the rapidly evolving capabilities of digital electronics render practical many processes which were once only theoretically possible. This is a tale of my journey through using SDR from the very beginning.

1. Introduction

2. Glossary

DSP

Digital Signal Processing, A digital signal processor (DSP) is a specialized microprocessor chip, with its architecture optimized for the operational needs of digital signal processing.

SDR

Software Defined Radio, Software Defined Radio attempts to place much or most of the complex signal handling involved in communications receivers and transmitters into the digital [DSP] style.

3. Document History

Table 1. Document History

Date	Version	Author	Description
01/05/2021	V2.1b	JHRS	Initial version