

A Notebook PC Based Real-Time Software Radio DAB Receiver

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Abstract

This paper introduces a prototype portable software radio research platform for DAB developed by us which consist a USB RF receiver module ,USB interface and a PC based software for device controlling and signal processing. We also add turbo decoding and ICI cancellation to improve the performance due to mobility. In addition, the software radio research platform for DAB can plot the SNR, BER, and spectrum in real time for analysis.

Key words : DAB;Eureka 147;ICI cancellation;Mobility;OFDM;

Software radio;USB