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Abstract
In recent years, many kinds of new digital communication systems have been developed. The Digital Audio Broadcasting (DAB) is one of them and it brings the broadcasting industry into a digital era. Comparing with the traditional AM and FM radio systems, the DAB system can provide not only the audio service but also various of multimedia services, such as text messages, homepage, pictures and movies. In general, a powerful hardware is needed to display (show) multimedia information. Considering that PC has the abilities of computation and mass storage, we design and implement a PC-based DAB multimedia receiver in this thesis. The PC-based DAB multimedia receiver receives and decodes the DAB multimedia signal, and sends the data to PC via USB 2.0 high-speed data bus. The PC decodes and presents the data. In this thesis, we focus on the USB 2.0 interface design. The implemented PC-based DAB prototype receiver provides the following features: (i) Meet the Eureka-147 DAB specification; (ii) Auto-detection of operation modes (Mode Ⅰ、Ⅱ、Ⅲ、Ⅳ); (iii) English / Chinese control and display panel; (iv) memory broadcasting station channel; (v) real-time recording/playing functions (vi) real-time data saving/printing functions; and (vii) with USB 2.0 high-speed interface. The functions of our PC-based DAB prototype receiver have been verified by receiving and showing the BCC DAB programs.
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