

A NEW SAW BASED OFDM RECEIVER CONCEPT

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ABSTRACT

We report on a new SAW (Surface Acoustic Waves)-based receiver concept for OFDM (Orthogonal Frequency Division Multiplexing) that is suitable for wireless high data rate indoor applications. We give a brief system overview and present simulation results of the data throughput. The simulation parameters are adapted to the proposed physical layer specifications of the IEEE 802.11 Wireless Local Area Network (WLAN) and the European ETSI / HIPERLAN standardization groups. In both groups OFDM has been chosen for the physical layer in the high data rate WLAN systems in the 5 GHz ISM band. Since costly high speed digital signal processing is necessary for today's high data rate requirements we propose a receiver concept with a SAW chirp Fourier transform.

1. INTRODUCTION

The interest in indoor wireless communications has grown rapidly in recent years due to advantages over cable networks, such as mobility of users, elimination of cabling, flexibility, and creation of various new communication services. In indoor radio communication special propagation problems arise due to the highly reflective and shadowing environment. Radio signals propagate via multiple paths which differ in amplitude, phase and delay time [1]. If the symbol period is getting shorter than the root mean square delay spread of the radio channel, this leads to significant distortion and intersymbol interference in

the receiving signals. Equalization in this case is complicated, complex and expensive.

A totally different way to overcome the problems of multipath fading is the multicarrier approach [2]. The given system bandwidth is divided into an appropriate number of subbands each of which is modulated with a low data rate modulation, corresponding to a long symbol period. OFDM is a special case of multicarrier modulation, where a guard time is inserted between consecutive symbols. This guard interval avoids intersymbol interference and if differential modulation schemes are applied to the subcarriers, no equalization is required at all.

In an OFDM transmitter the inverse FFT (Fast Fourier Transform) transforms the complex amplitudes of the individual subcarriers into the time domain. At the receiver the inverse operation is carried out with the FFT transform. The application of the discrete Fourier transform causes blockwise transmission.

For a given data rate the complexity of an OFDM receiver is lower compared to a single carrier system in connection with equalization. Despite the reduced effort compared to single carrier systems, high speed digital signal processing is necessary in conventional OFDM receivers for today's high data rate requirements. Therefore we propose the use of the SAW chirp Fourier transform technique to replace the costly and power consuming DSP part.

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