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基于DSP的高动态数字解扩接收机的研究

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STUDY ON THE DIGITAL SPREAD SPECTRUM RECEIVER WITH HIGH DYNAMIC BASED ON DSP

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摘要

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摘要 讨论了高动态、低信噪比、长伪码序列扩频信号的伪码捕获、跟踪、载波跟踪与数据解调方法。提出了一种基于高速数字信号处理技术和现场可编程逻辑器件 (FPGA)的全数字高动态解扩接收机方案。

关键词: 数字解扩接收机 高动态 数字信号处理(DSP)

Abstract: The paper discusses the acquisition and tracking of the PN code and the tracking of the carrier in high dynamic range, low SNR and long PN code. It presents a project of the digital spread spectrum receiver with high dynamic based on DSP and FPGA.

Keywords: digital spread spectrum receiver high dynamic digital signal processor (DSP)

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