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NT平台上扩频接收机和计算机之间数据通信的研究

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STUDY OF DATA COMMUNICATION BETWEEN SPREAD SPECTRUM RECEIVER AND COMPUTER ON NT PLATFORM

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摘要 为了满足遥测数据实时处理和联网通信的要求,选用了 Windows NT操作系统,制订了扩频接收机和计算机之间的通信协议,研究了 NT平台上 PIO和 DMA两种数据传输的方式,并针对数据传输率为4 0.2 6kbit/s的课题要求,实际编写了 NT设备驱动程序和用户检测程序,实现了总线插卡式的扩频接收机和计算机之间数据通信

关键词:　数据通信　总线　扩频接收机　通信协议　设备驱动程序

Abstract：In order to meet the requirements of telemetering data real-time processing and net communication, Windows NT operating system is adopted. Communication protocol between the computer and spread spectrum receiver is worked out. Two kinds of data transmission modes PIO and DMA are studied. Device driver program and user detecting program which adapt to 40.26 kbit/s data rate are written. Data communication between the bus structure spread spectrum receiver and computer is realized.

Keywords：data communicat ion   bus   sp read spect rum receiver   communicat ion p ro toco l   device driver p rogram

Service

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