**基于6U VPX 的mSATA高性能数据存储板**



**一、板卡概述**

       该产品系我司自主研发。基于标准6U VPX架构。

**二、产品特性**
       大存储容量8TB
       读写方式RAID0 ,读写速率2GB/s
       四路x4 SRIO@5Gbps/Lane
       两路 x4 PCIe@5Gbps/Lane
       板载4GB DDR3 SDRAM
       板载 2颗 128MB NorFlash
       两路1000Base-T接口
       符合VITA46.0 VPX Base Standard

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| **三、原理框图**http://www.orihard.com/files/286-02.gif**四、产品规格**

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| 处理能力 | 两片 Xilinx FPGA XC7K325T-2FFG900I |
| 存储能力 | 每片FPGA外挂DDR3 SDRAM 256M x 64bit |
| 每片FPGA 外挂BPI Flash 128MB，用于程序加载 |
| 外挂8个mSATA盘 @ 6Gbps/lane，总容量 可达8TB |
| VPX接口 | P0：单电源供电，系统复位（低电平有效），SM总线（IIC） |
| P1：四组x4 SRIO @ 5Gbps/Lane |
| P2：两组x4 PCIe @ 5Gbps/Lane,一个千兆以太网 10/100/1000 Base-T |
| P3：32对LVDS |
| P4：32对LVDS |
| 前面板 | 一个千兆以太网 |
| 两个电源指示灯 |
| 一个系统复位按键 |
| 两个FPGA分别引出4个LEDs至前面板，用于状态指示及调试 |
| 片间互联 | 两个FPGA 实现72对LVDS互联 |
| 工作温度 | -40℃~ 70°C |
| 供电要求 | 单电源DC12V~5A |
| 散热方式 | 风冷散热 |

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