



中国科学技术大学

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A low power DAQ system with high-speed storage for submersible buoy

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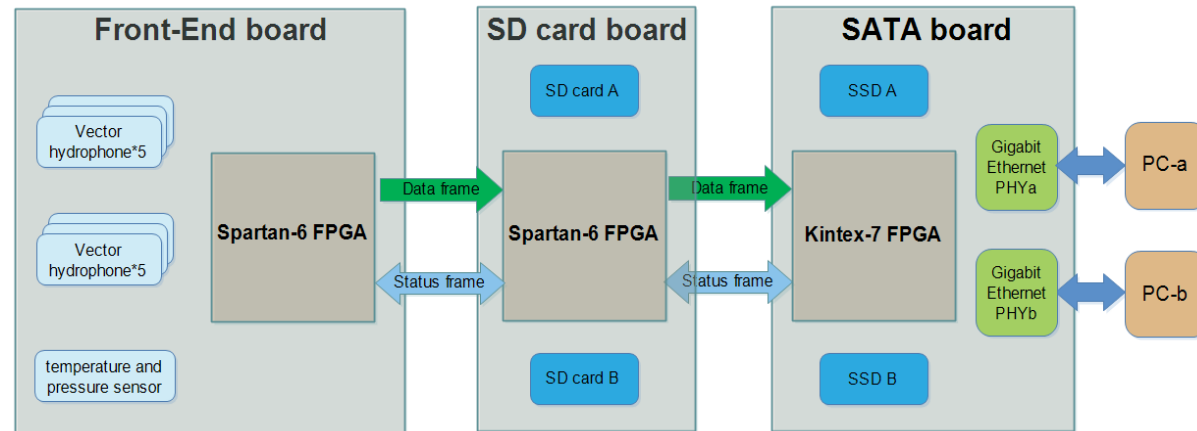
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● Structure

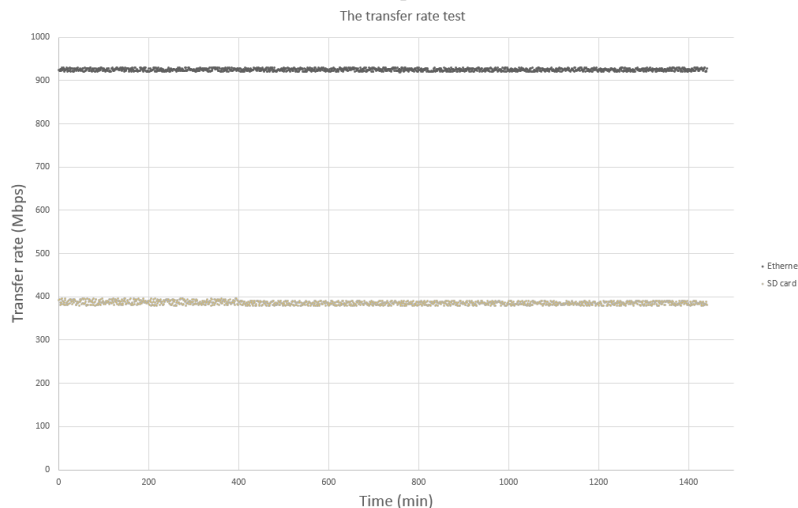
- Front-End board
- SD card board
- SATA board



● High-speed transmission verification

- The transfer rate of gigabit network is about 900Mbps.
- The readout speed of SD card is about 400Mbps.

● Design of low-power



	RLE encode	Huffman encode	LZW encode
1st test (260MB data)	63.34%	46.23%	48.87%
2nd test (260MB data)	67.14%	49.65%	50.23%
3rd test (260MB data)	65.28%	47.81%	50.16%
4th test (260MB data)	63.72%	47.42%	49.71%
5th test (260MB data)	64.59%	47.75%	50.04%
6th test (260MB data)	64.67%	46.90%	49.95%



Thanks

My poster is No. 541