

O-RxCard

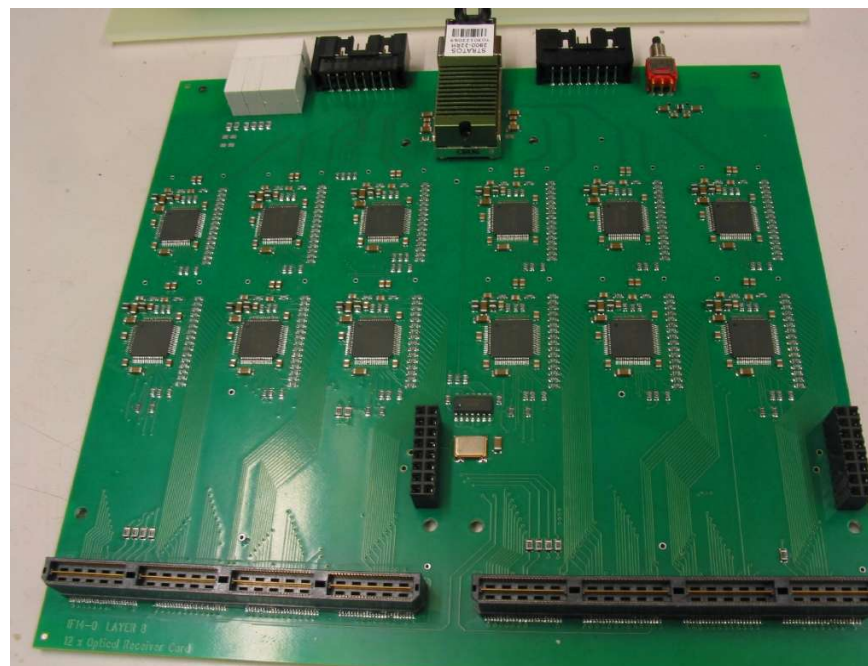
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O-RxCard

- 5 IF14-0 prototypes produced, 3 tested
- AS-24-0 fan out to 1/10 connectors
- Pseudo random Bit Test with loopback
- Analogue Beetle Data transmission
- Digital counting data transmission
 - Quartz clocking
 - External clocking

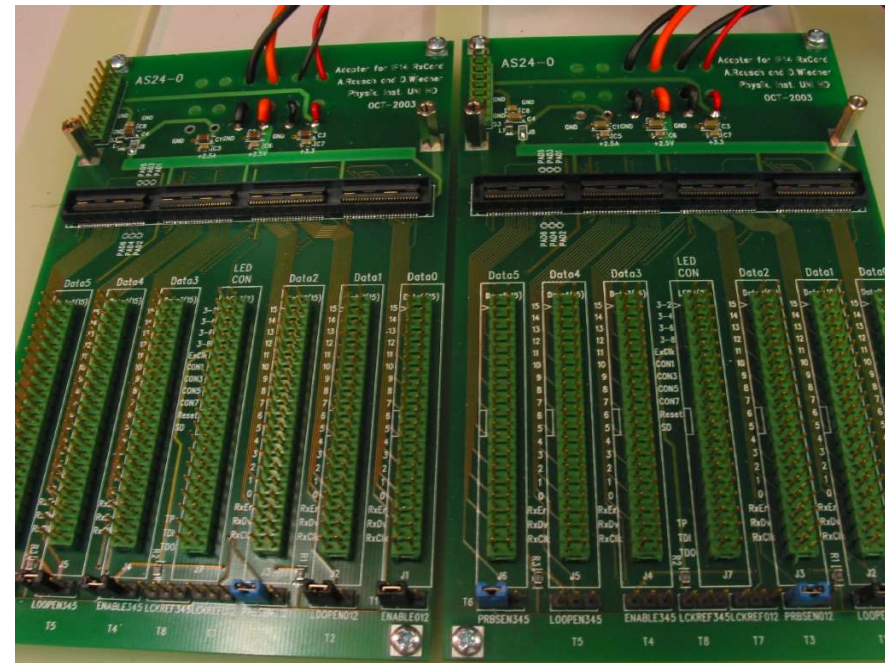
O-RxCard Prototypes produced

- 5 Cards produced
- BGA assembly done
- 3 Cards fully equipped



AS-24-0 fan out to 1/10 connectors

- Fan out for all O-RxCard signals
- from 1/40 inch to 1/10 inch
- 1 AS24-0 per Samtec

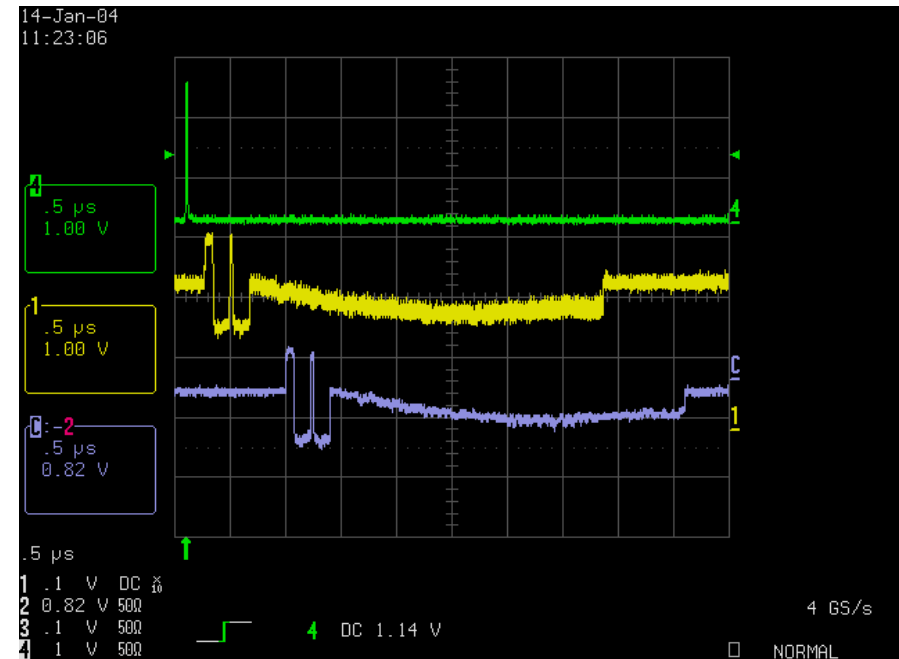


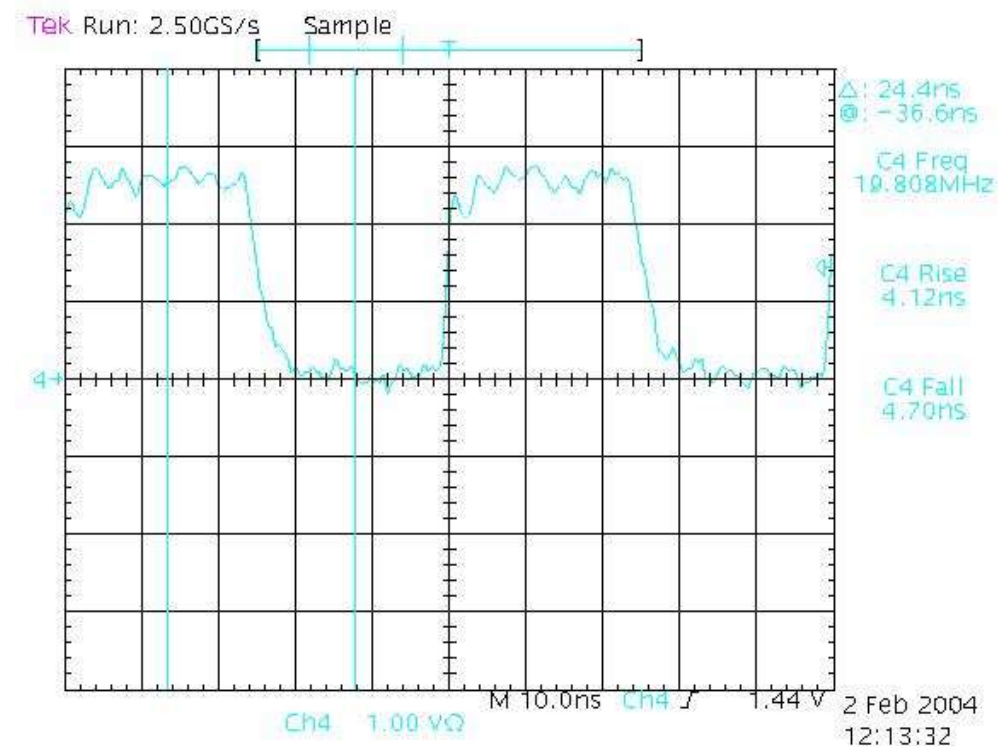
Pseudo random Bit Test with loopback

- TLK2501 deserializer test with pseudo random bits and loopback
- Tests possible for all 12 TLKs without optical stimulus
- 3 O-RxCards tested
- clean signals on all 576 data channels
- 5-10 % overshoot, 2-5% undershoot

Analogue Beetle Data transmission

- Beetle
- FADC
- GOL
- VCSEL
- Fiber
- O-RxCard
- Analog test bench
- Oscilloscope





Summary

- O-RxCards produced and tested
- good first impression
- future tests:
 - BERT (HD)
 - TELL1 (Lausanne)
 - Muon system (Marseilles)