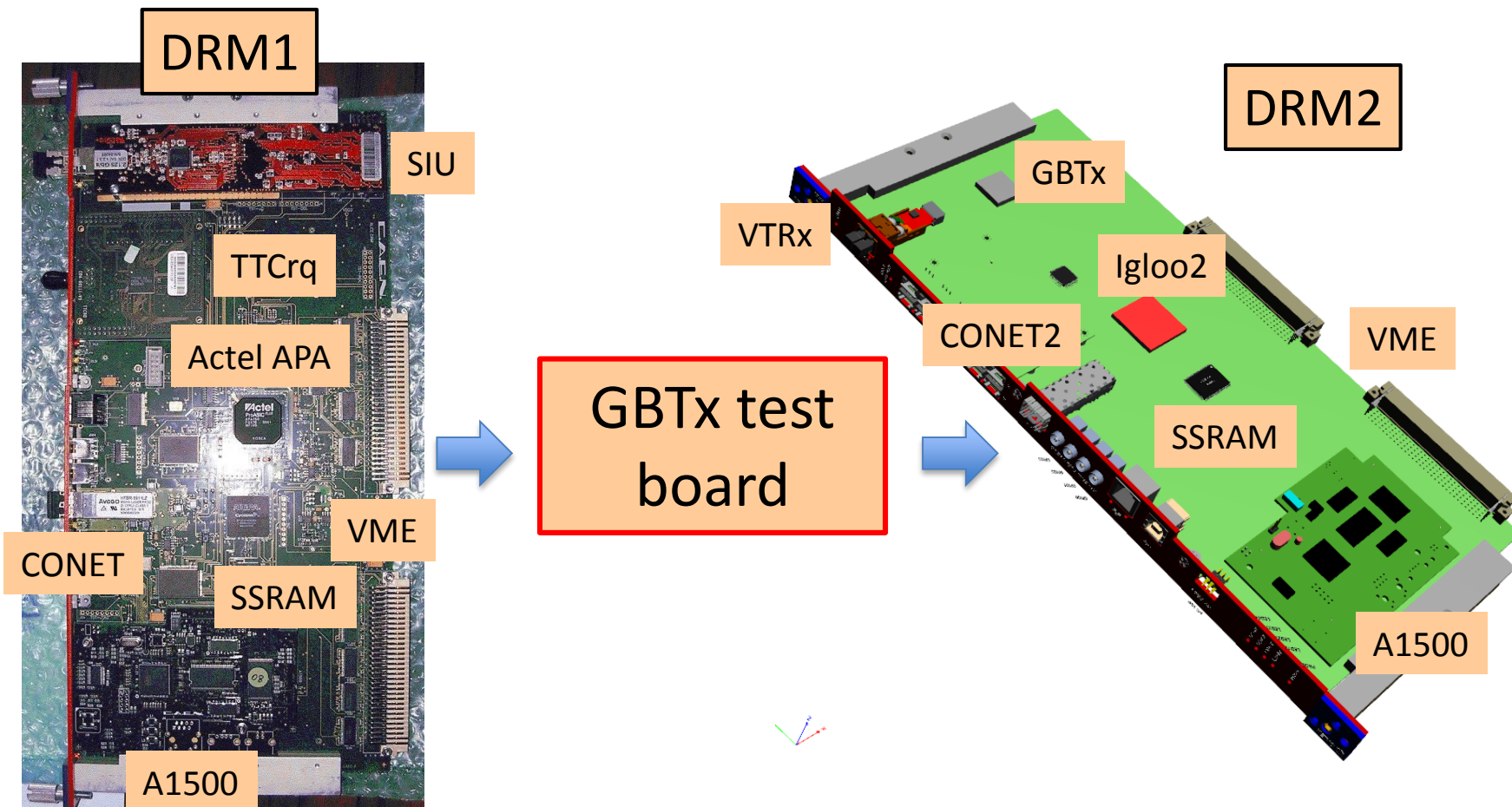
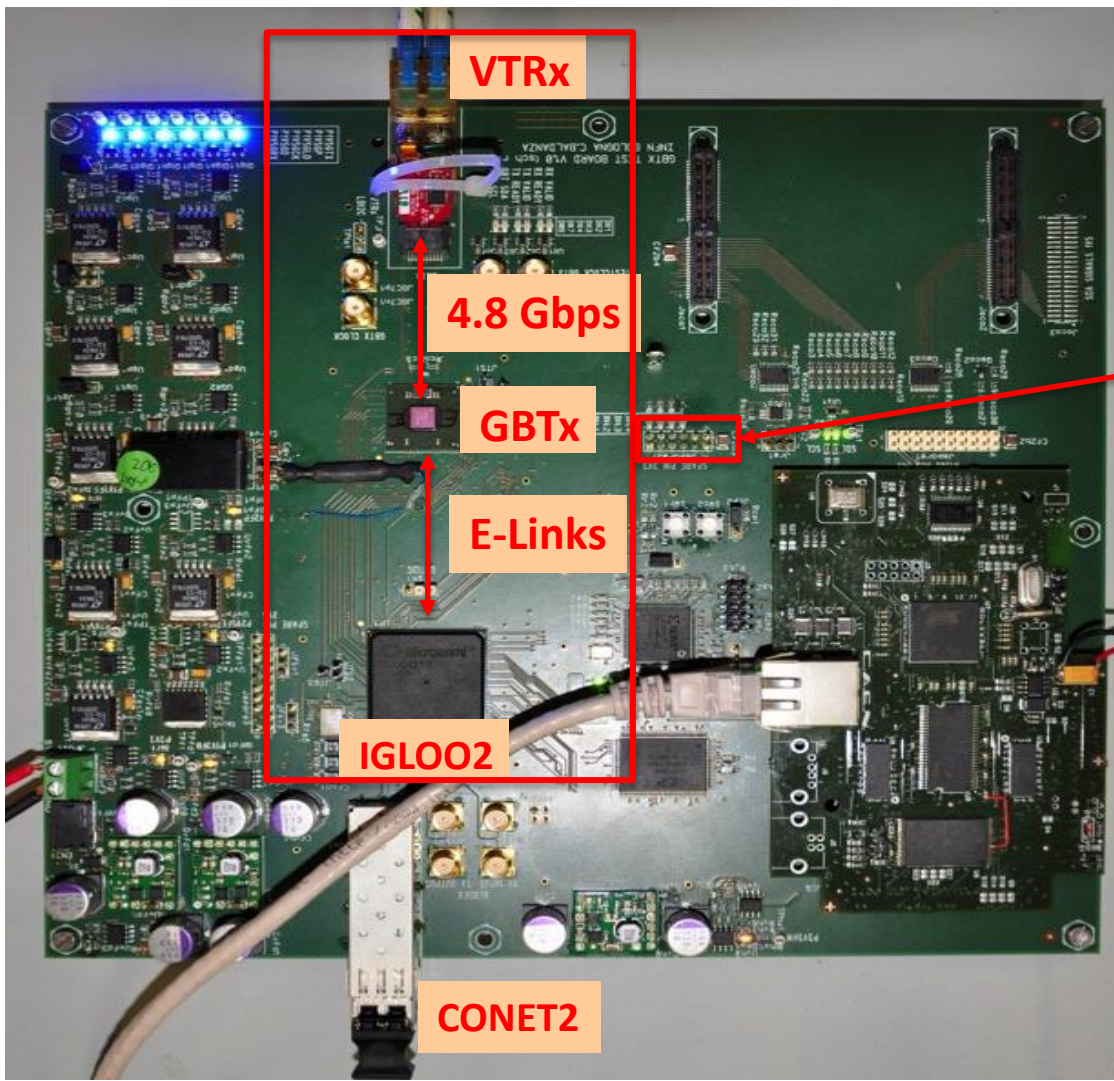


Design and test of a GBTx based board

for the upgrade of the ALICE TOF readout electronics

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NI USB pod 8451

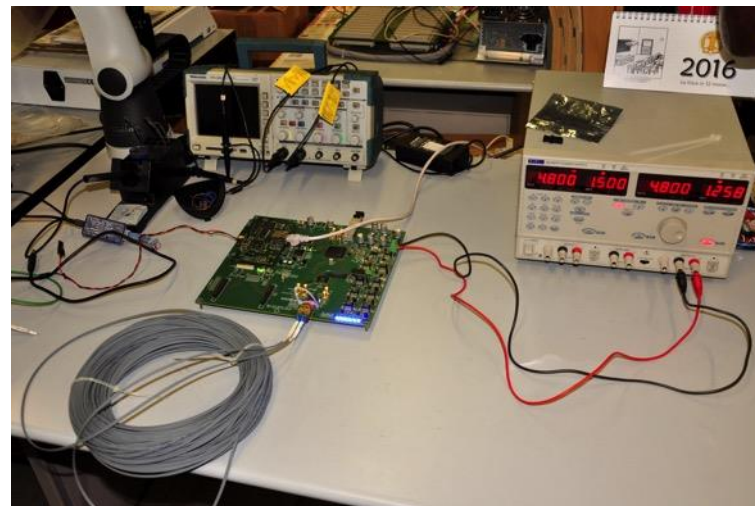
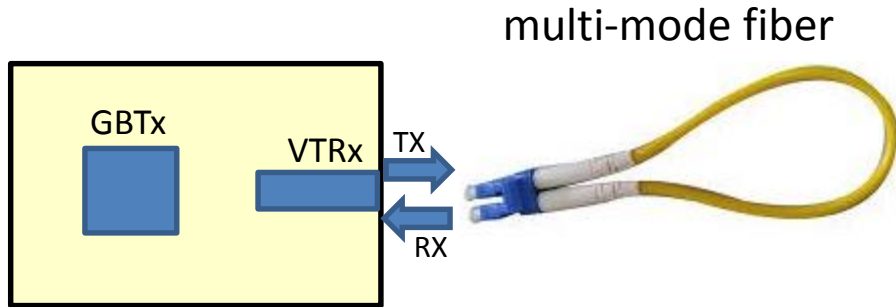


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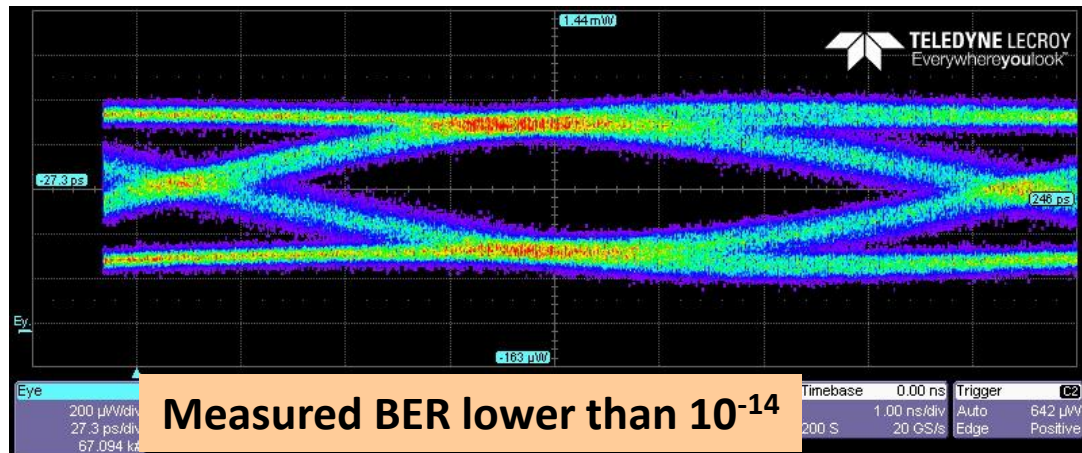
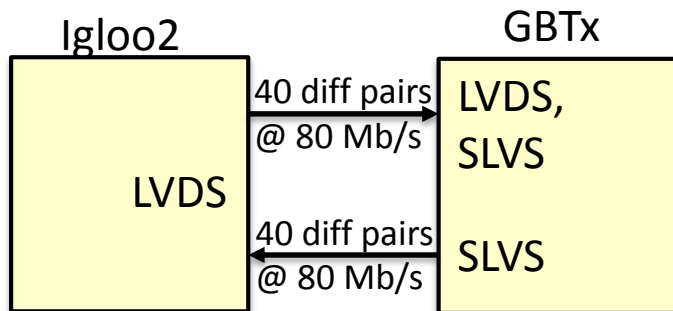


GBTx loopback tests

GBTx tested in loopback while transmitting fixed patterns (0xAA BBB...) at 4.8 Gbps and no errors were found.



eye diagram of the GBTx TX output



- Good testbench for testing the Igloo2 – GBTx – VTRx system
- Very good BER (as low as 10^{-14})
- Already used in connection to a PCIe C-RORC board for data acquisition on a PC



200 KHz
trigger rate
270 MB/s
throughput



GBTx test board: scheme

