micro-TCA DAQ Upgrade Meeting – 9/9/2014 - First Meeting

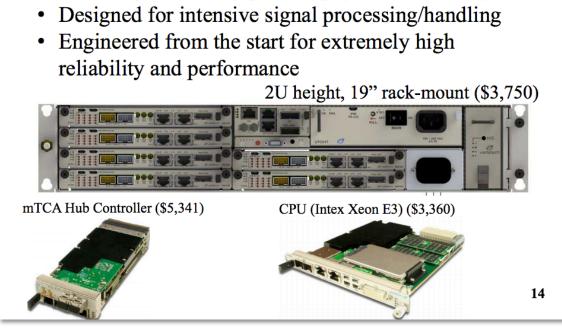
Resources:

http://www.phys.hawaii.edu/~idlab/taskAndSchedule/STURM/XRM Readout Upgrade.pdf

The following is slide 14 from XRM_Readout_Upgrade.pdf

Micro-TCA

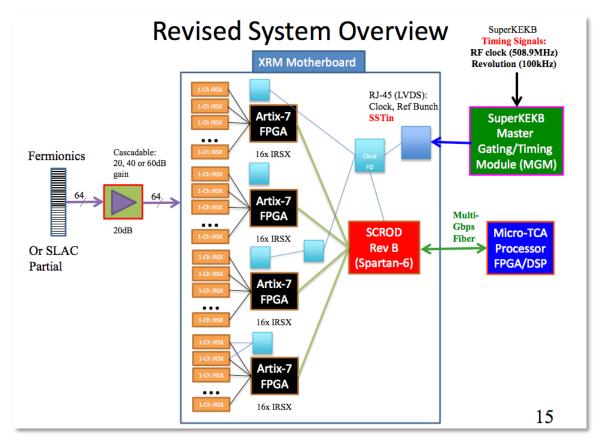
 Based upon advanced TeleCom standard, but a light version, preferred by particle physics community



CPU(Intel Xeon E3)
Transmission Protocol (Setup)

HI nuon beamline

The following is slide 15 from XRM_Readout_Upgrade.pdf



Steps:

- 1) Configure OS
- 2) Set up Link
- 3) Transfer Protocol
- 4) Establish Event Transfer

Problem:

- We don't have a high data-rate
- · Need very high throughput

Micro TCA system

- PCI link
 - Learn how to configure and see how fast can go
- Connect up to 6 computers

October Deadline (Transmit one at time)

- Jussi designing hardware at the moment
- Ring in KEK is 3km long (same particle comes every us), 5 Hz