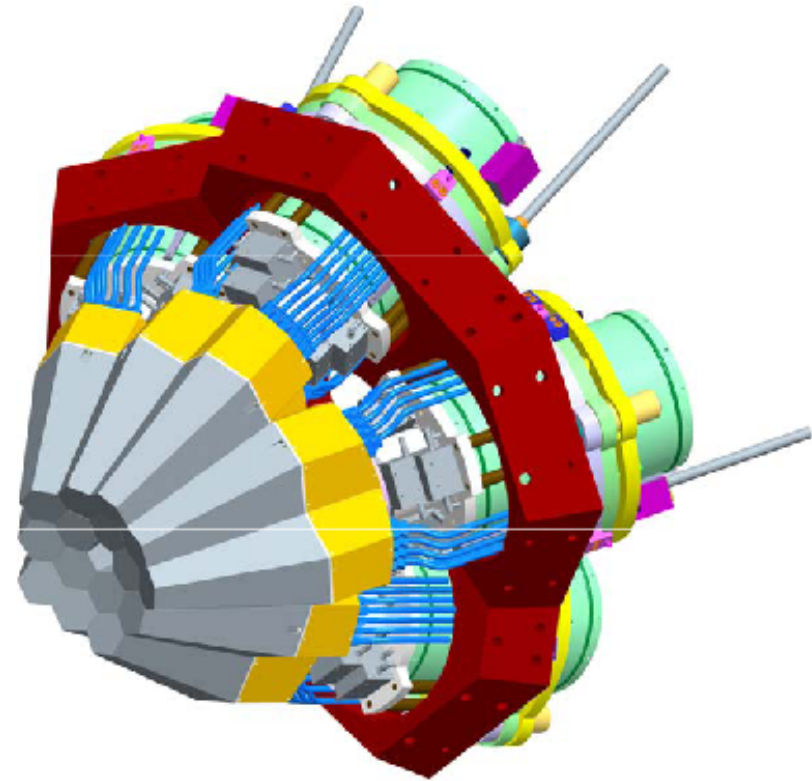
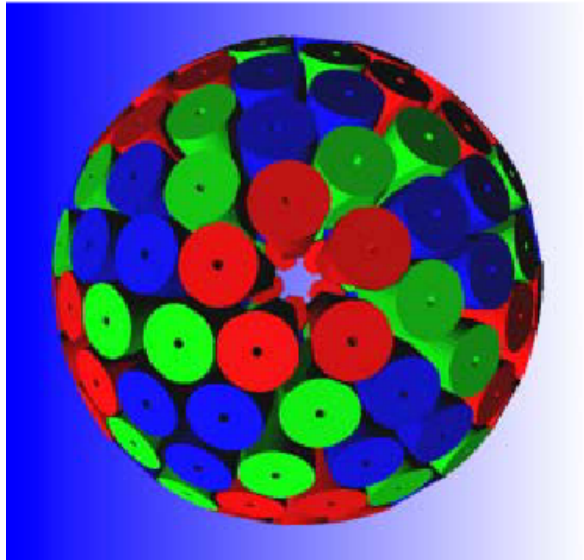


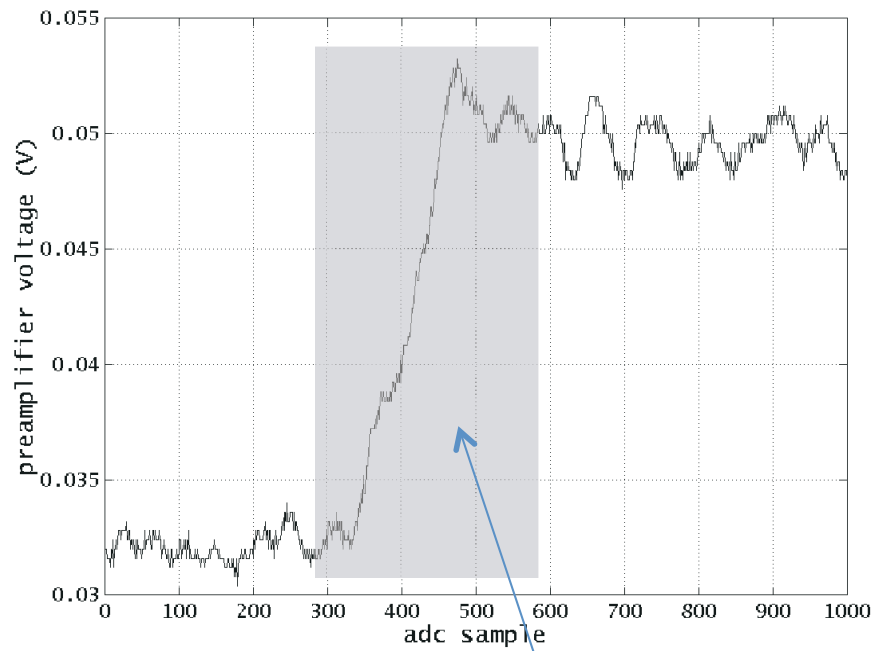
Agata in pictures

Demonstrator – 18 crystals

Full detector – 180 crystals

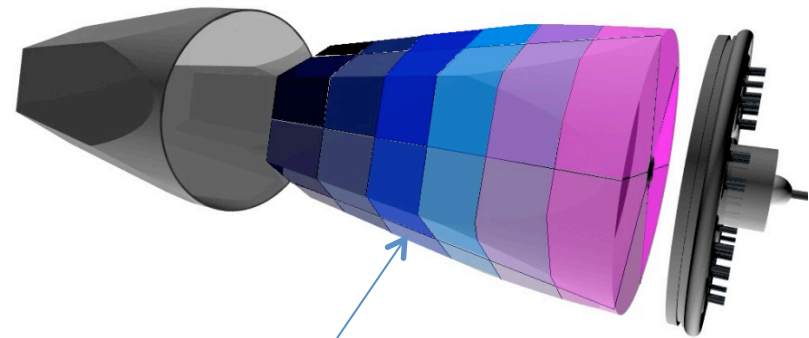


HPGe segmented crystal

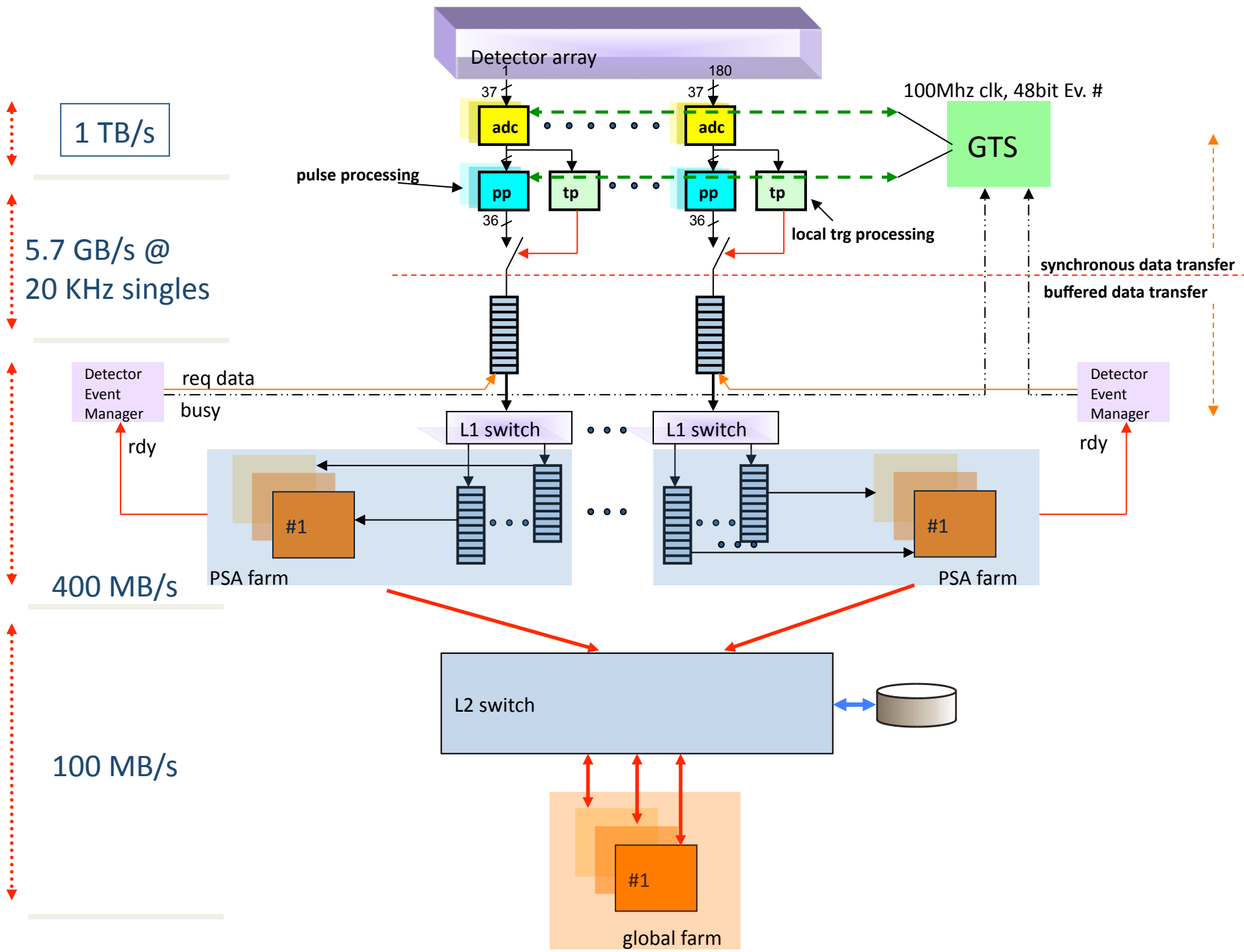


Region of interest

Sampling @ 100Ms/s/segment

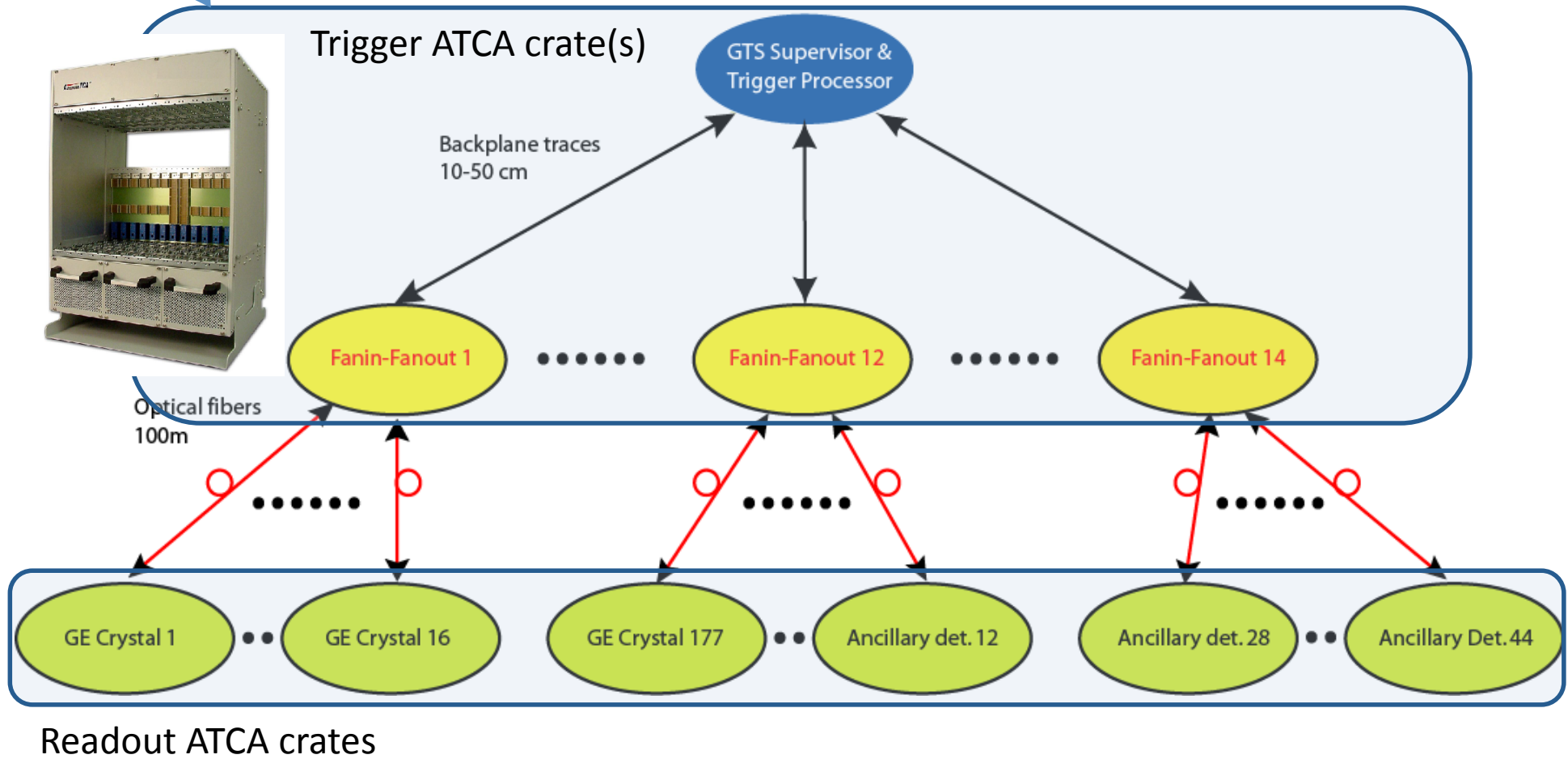


36 + 1 segments

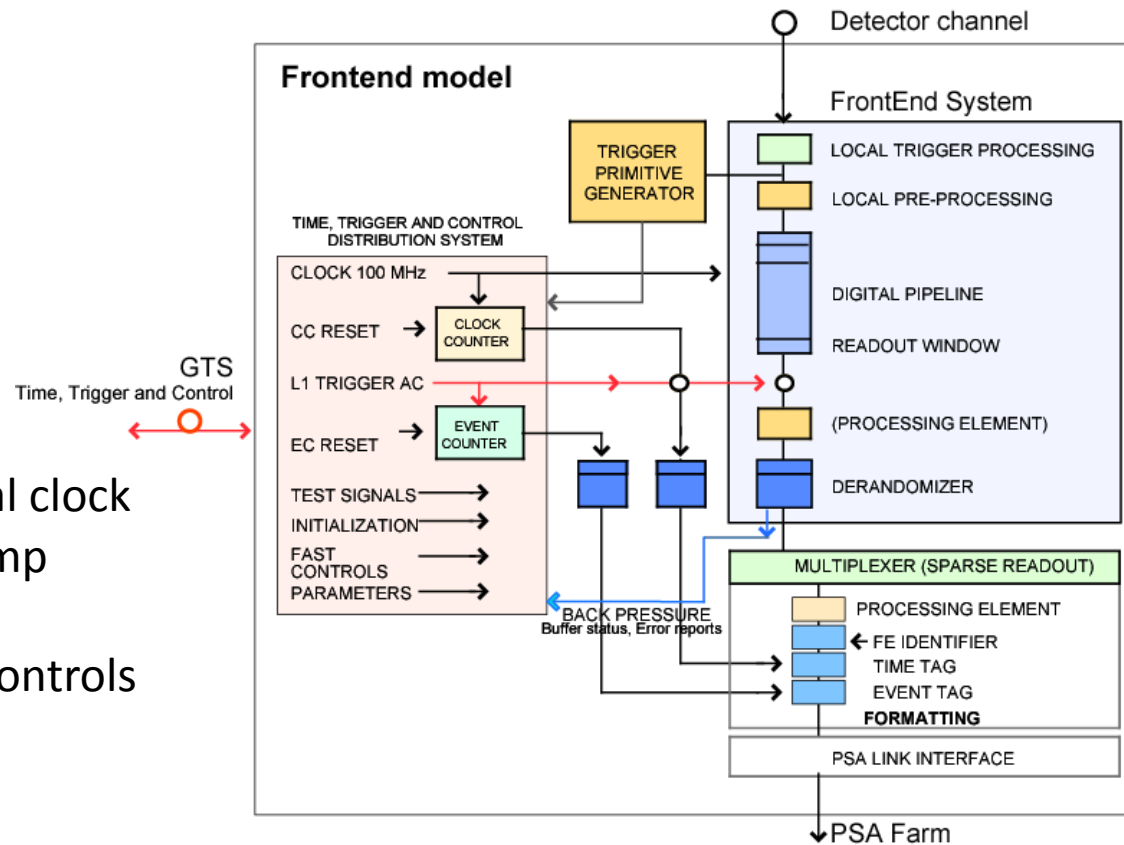


Timing and Trigger (GTS)

ATCA standard : dual star

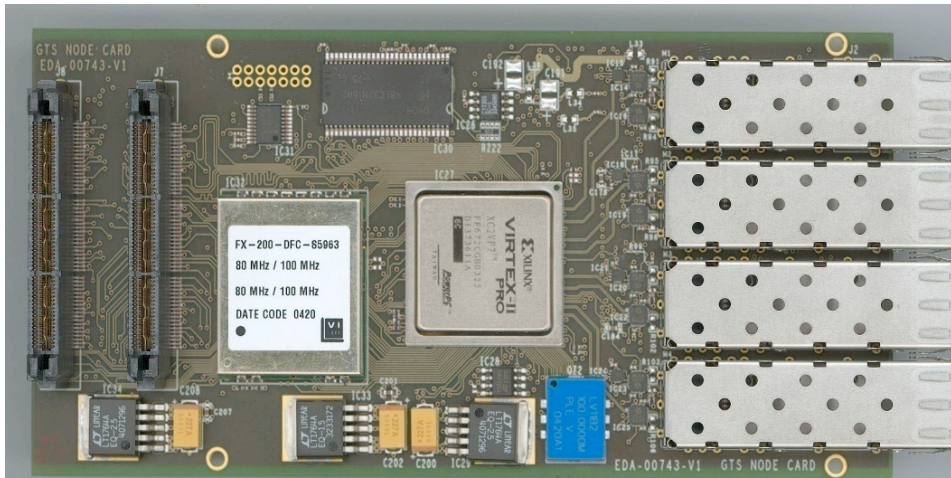


Timing and Trigger model

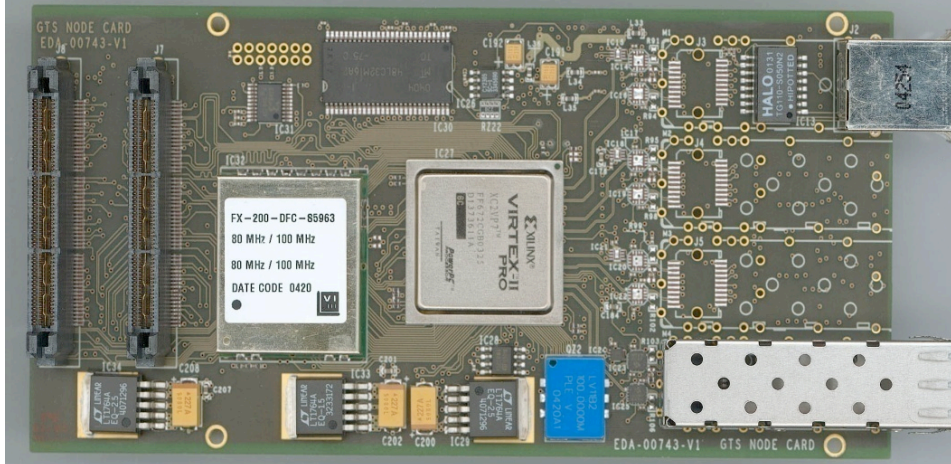


100 MHz global clock
48 bit timestamp
L1A trigger
Synchronous controls

GTS mezzanine

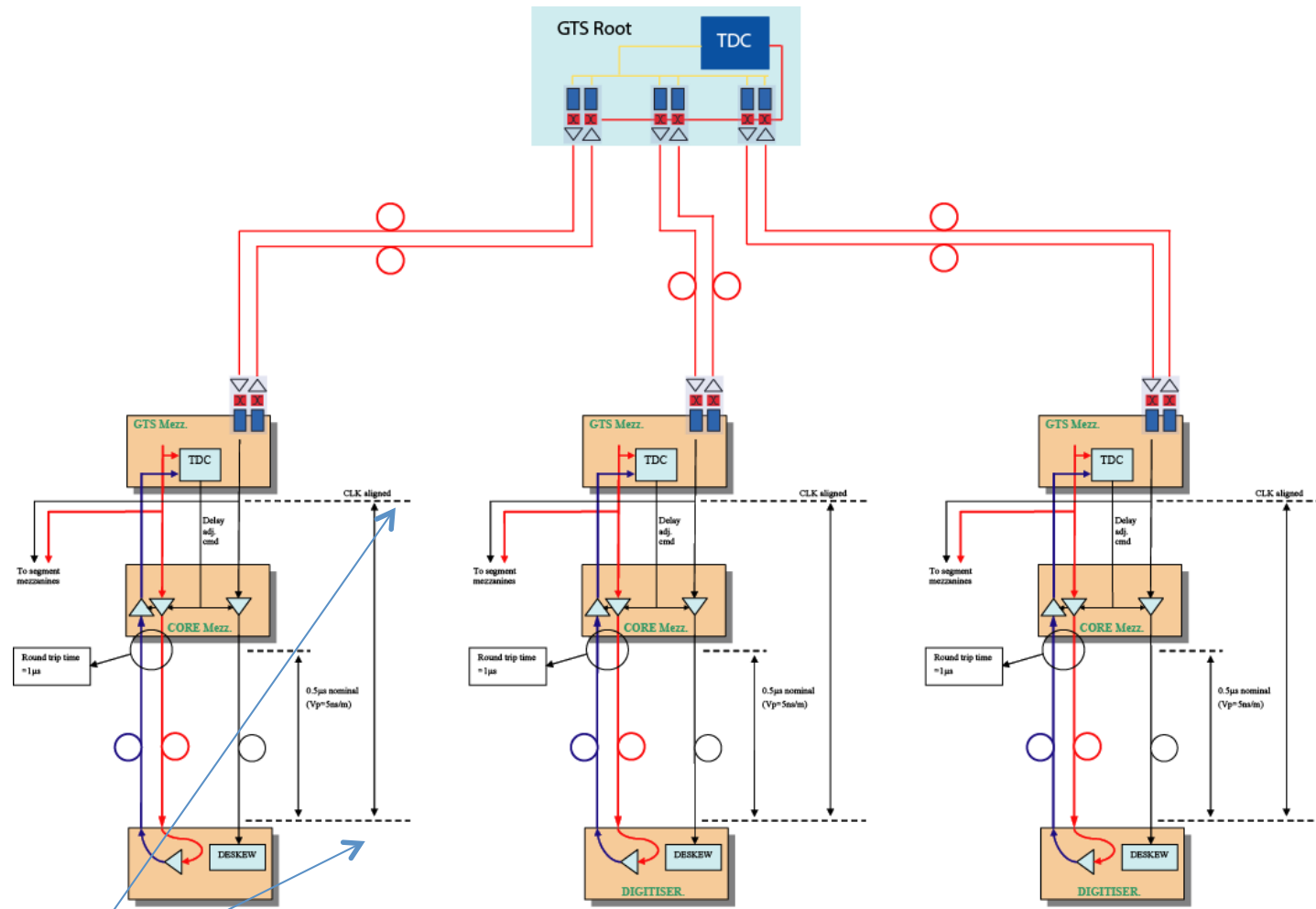


- ← → Timing and trigger I/F
- ← → Timing and trigger I/F
- ← → Timing and trigger I/F
- ← → Timing and trigger I/F



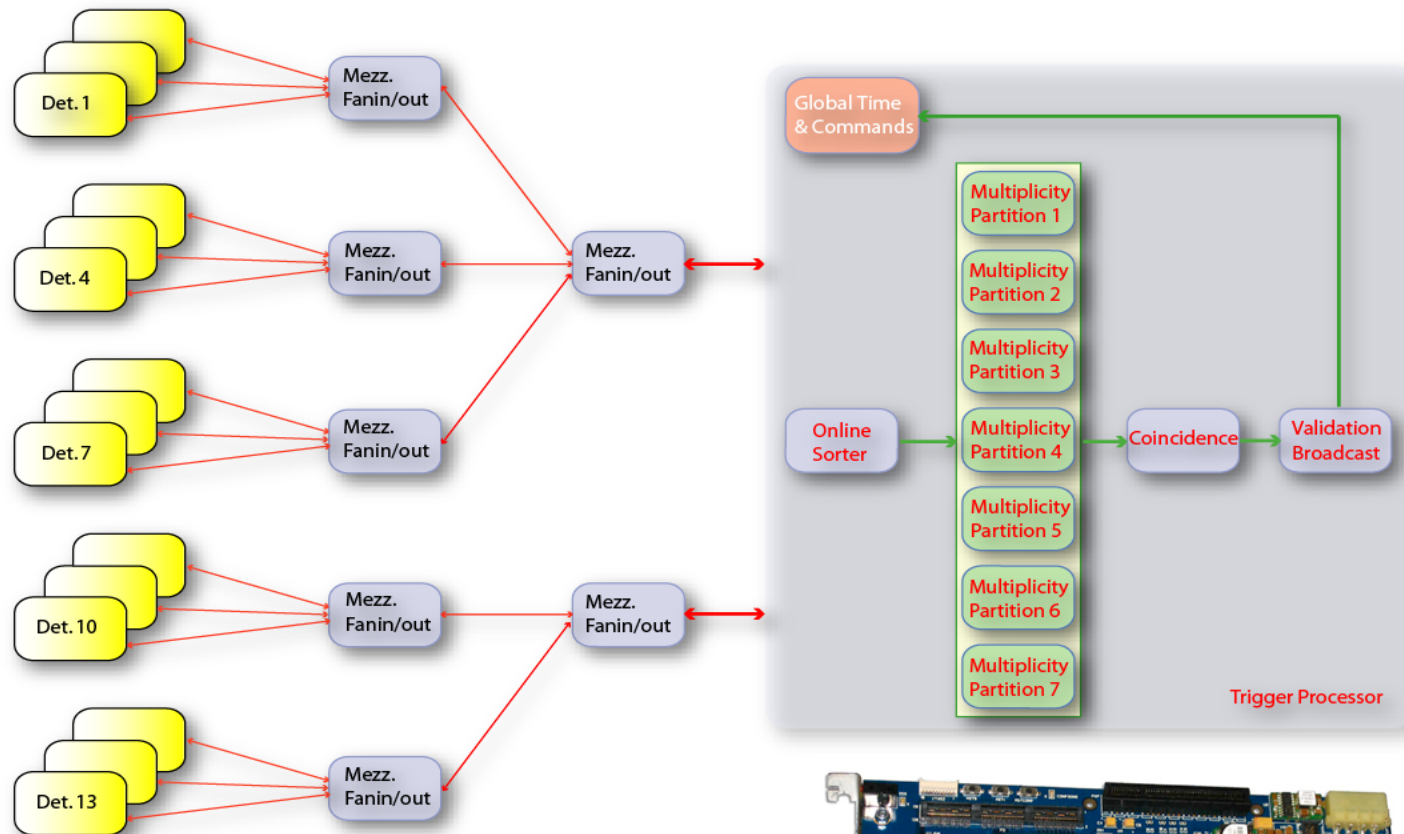
- ← → Timing and trigger I/F

Global clock equalization

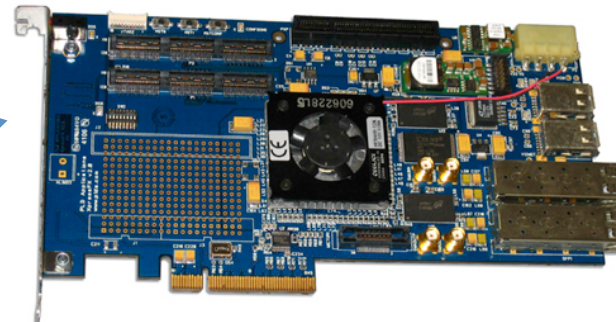


Clock phase equalization < 70 ps rms

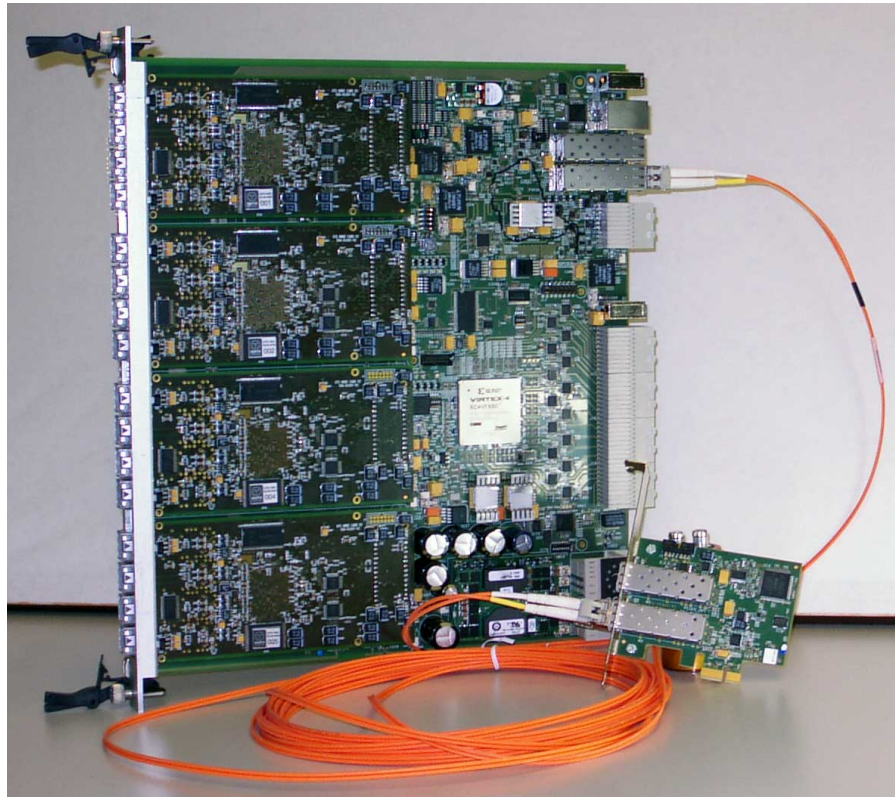
Global Trigger Processor



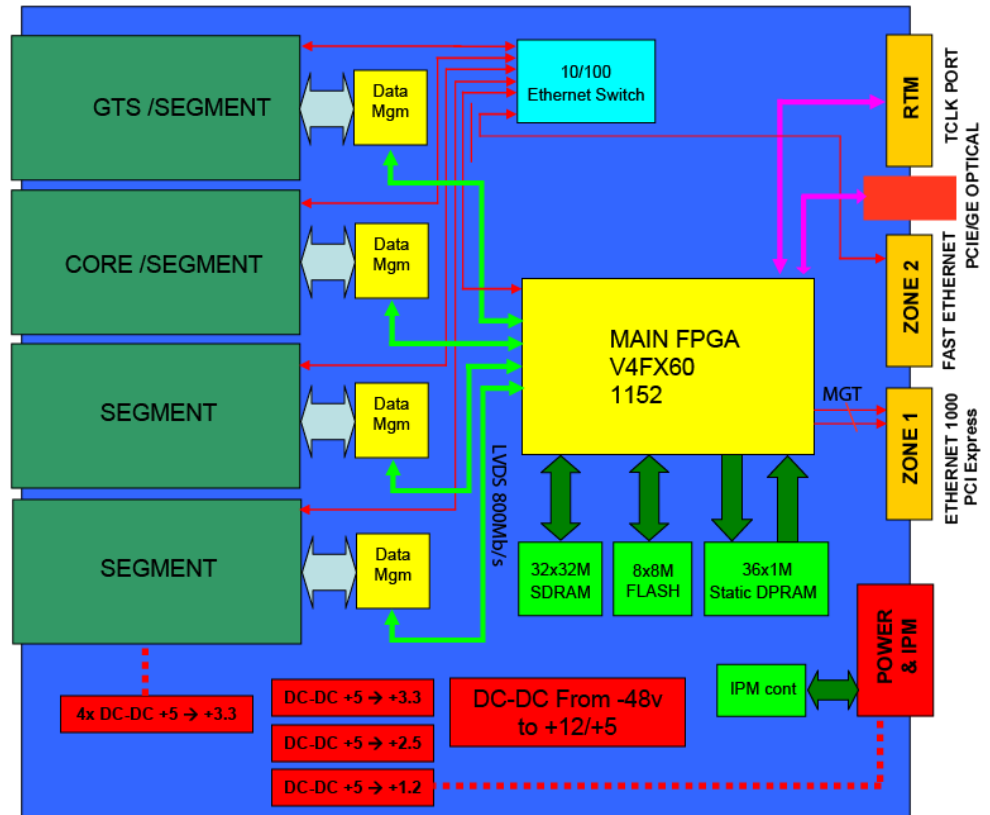
48 channels in a Xilinx Virtex-4 Fx100



Frontend Readout Card

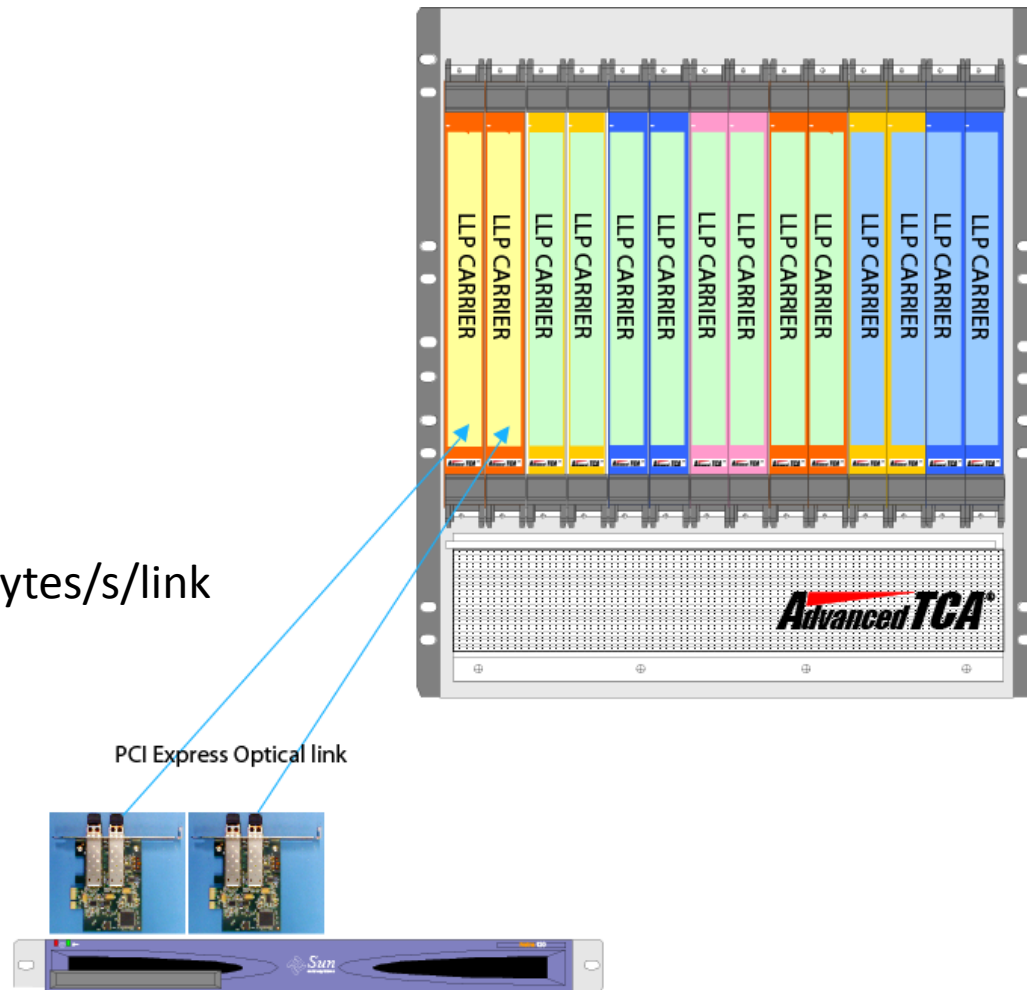


ATCA carrier for detector readout

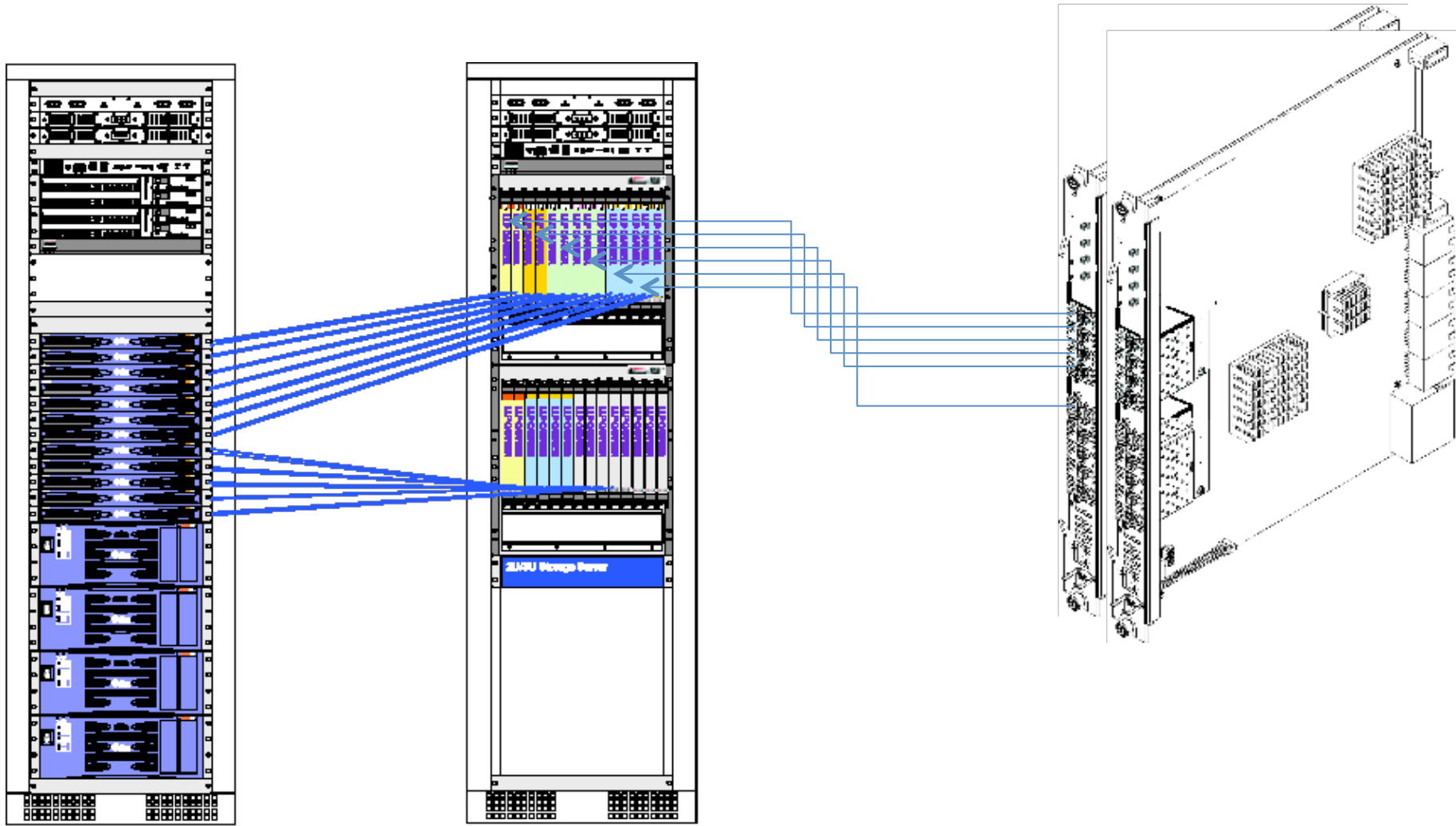


Event builder I/F

BW : 200 Mbytes/s/link



Trigger + readout



Mini – GTS tree

