GLIB STATUS

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[on behalf of the GLIB team]

xTCA interest group meeting
CERN, 17/03/2014

PH-ESE-BE

GLIB

development board

easy entry point for users of high speed optics

in-system evaluation of the new (GBT/VL) link

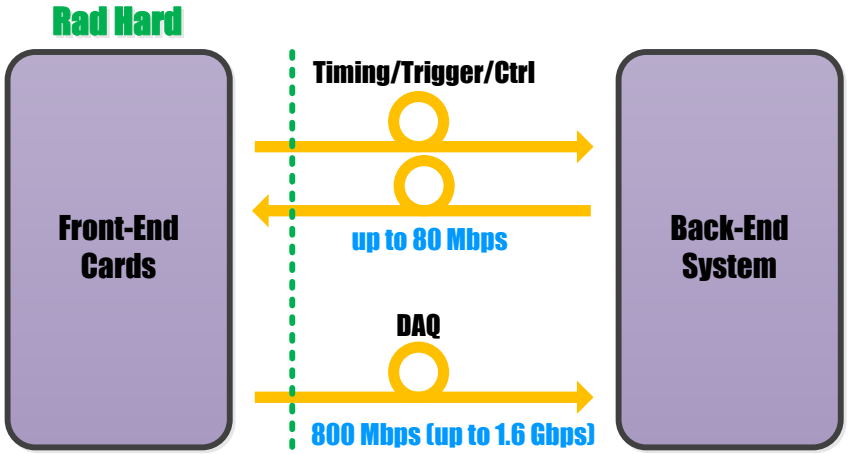
Platform for uTCA developments

https://espace.cern.ch/project-GBLIB/Production/GLIB_v3/glib_v3_inventory.xlsx

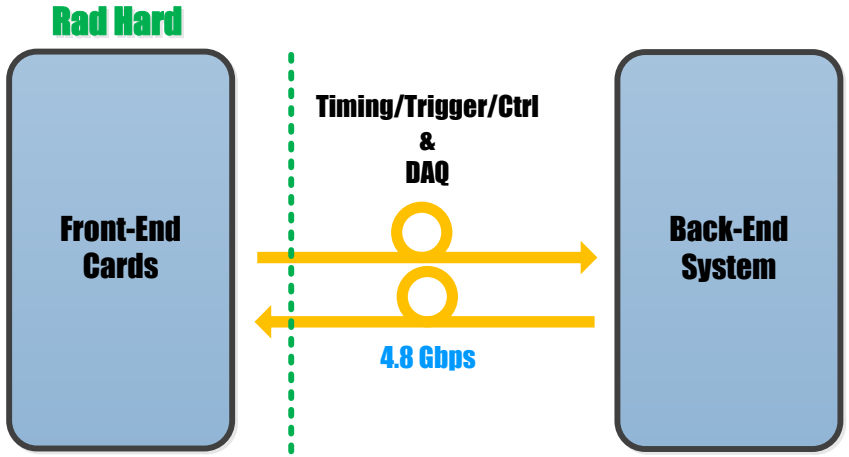
Introduction (1 of 3)

Interconnection systems for High Energy Physics (HEP) experiments

- Current generation:

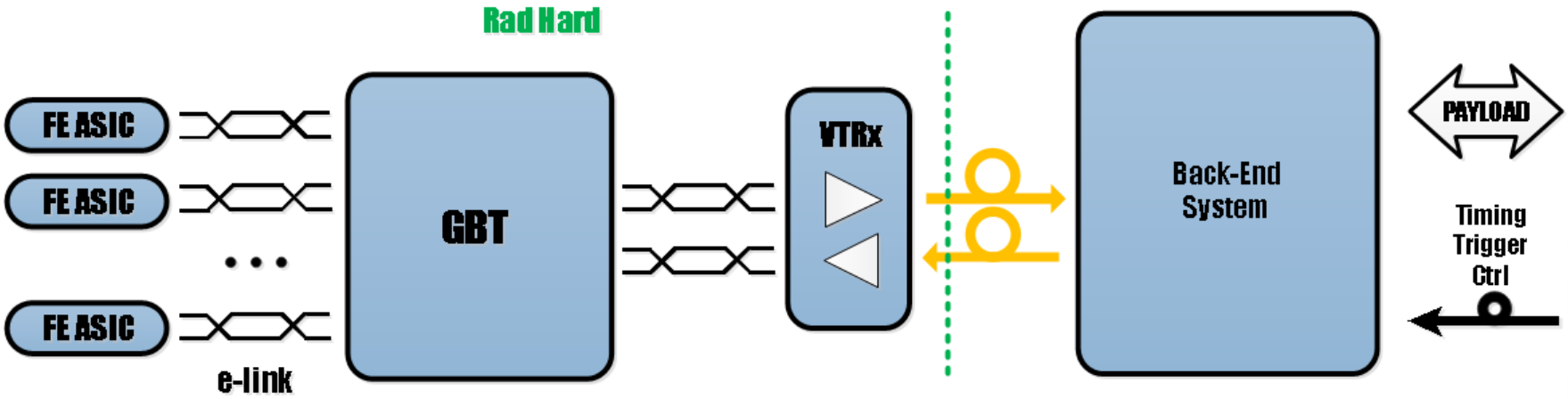


- New generation:



Introduction (2 of 3)

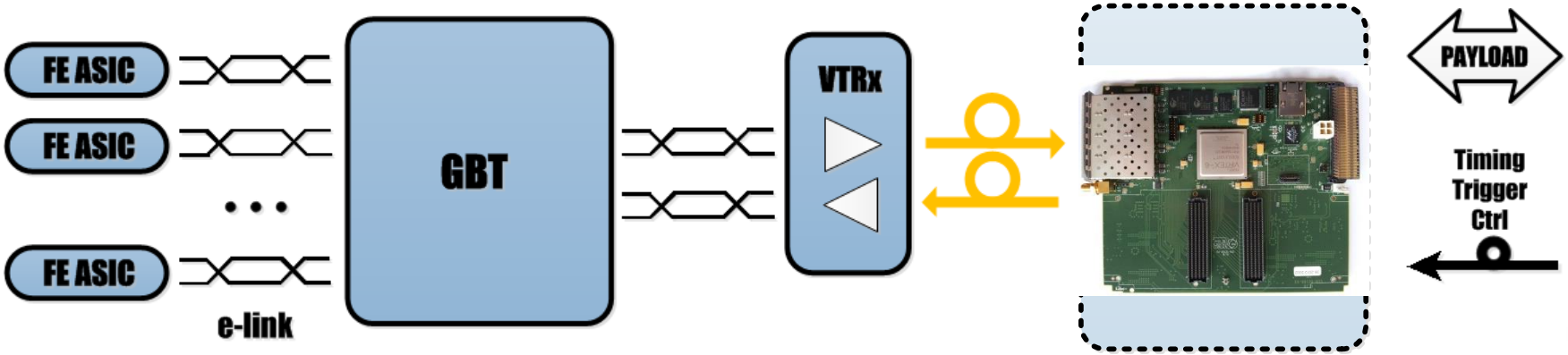
GBT, Versatile Link and e-Link in new generation HEP interconnects



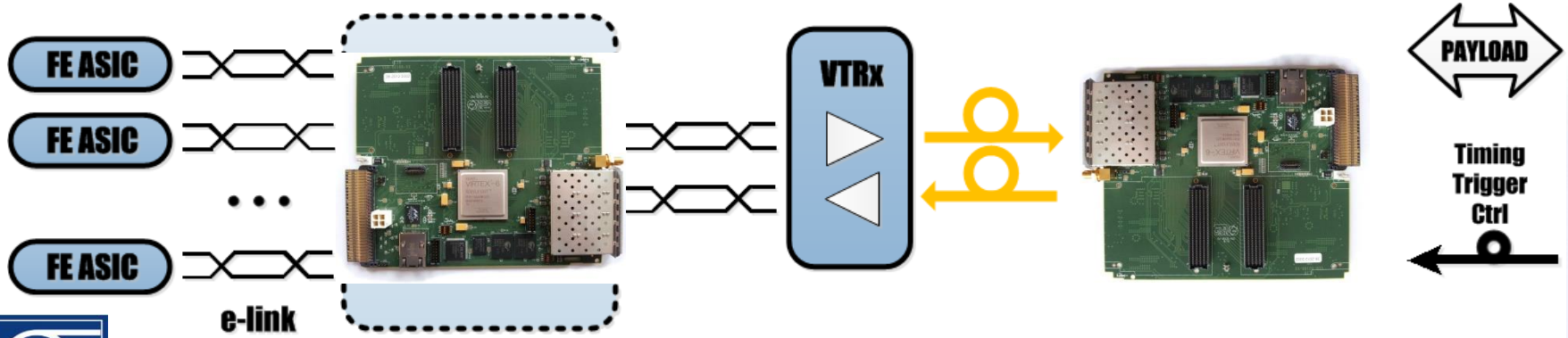
Introduction (3 of 3)

Where does GLIB fit in future HEP systems?

- Baseline configuration:



- Intermediate Prototyping Configuration:

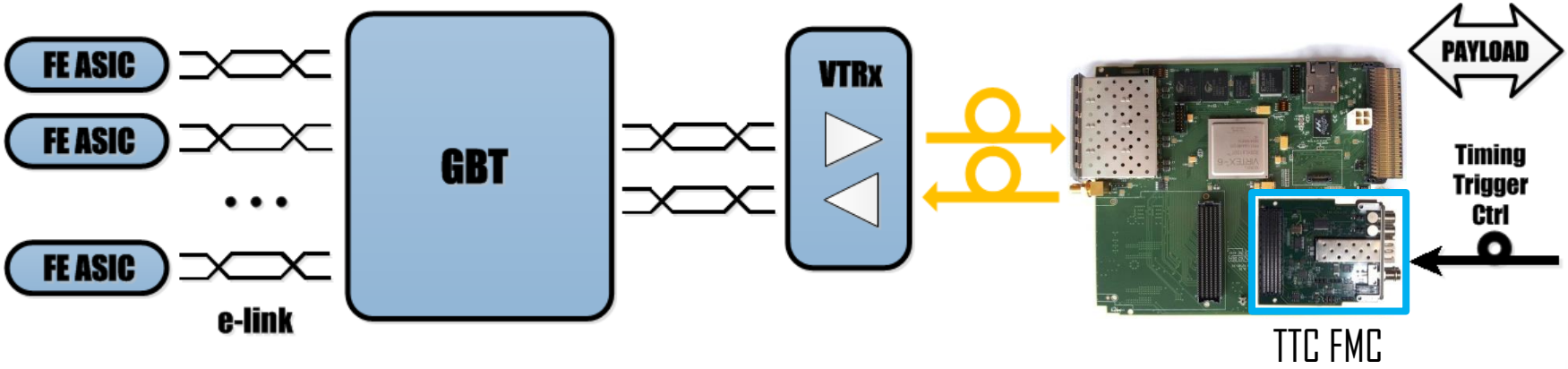


GLIB

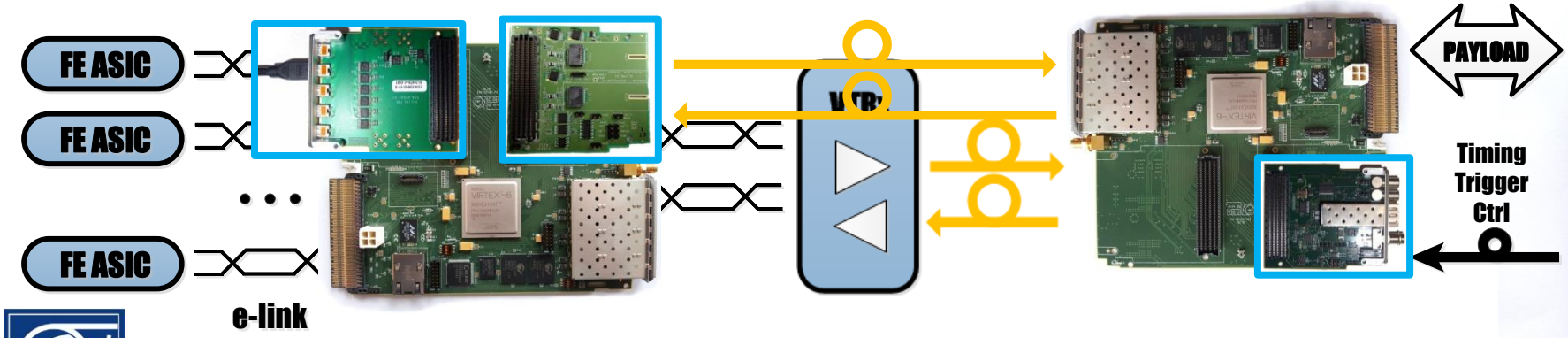
- **102 pcs produced**
  - 94 sold (75 to ext. institutes)
  - 8 internally used
- **20 pcs on the way**
  - 18 sold
- **Served well the purpose, time to end production**
  - Last orders by end September 2014
  - Support continues normally

Ecosystem

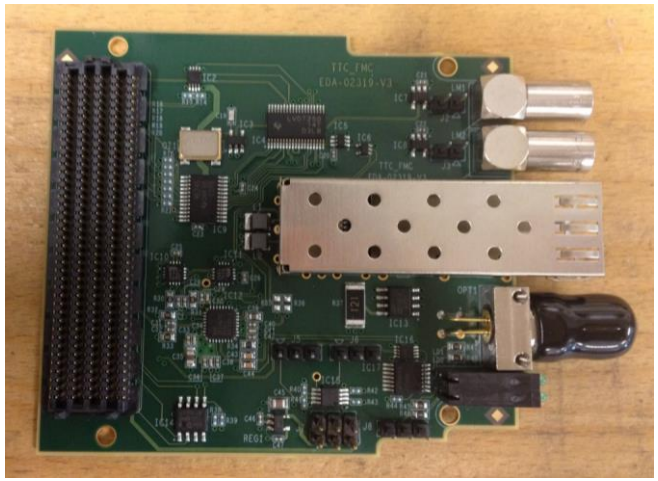
- Baseline configuration:



- Intermediate Prototyping Configuration:

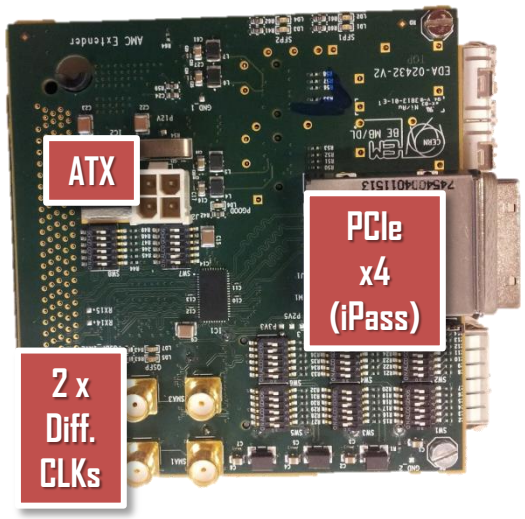


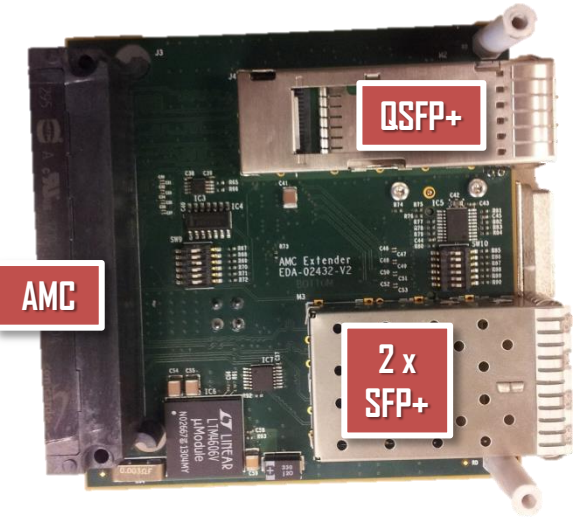
TTC FMC



- In production
- Firmware, support
- 72 pcs
  - 56 sold (17 to ext. institutes)
  - 4 internally used
  - 12 in stock

High-Speed AMC Bridge Card





- Prototype (fully functional)
- Small (& trivial) improvements will make it even more attractive
- Availability to community?

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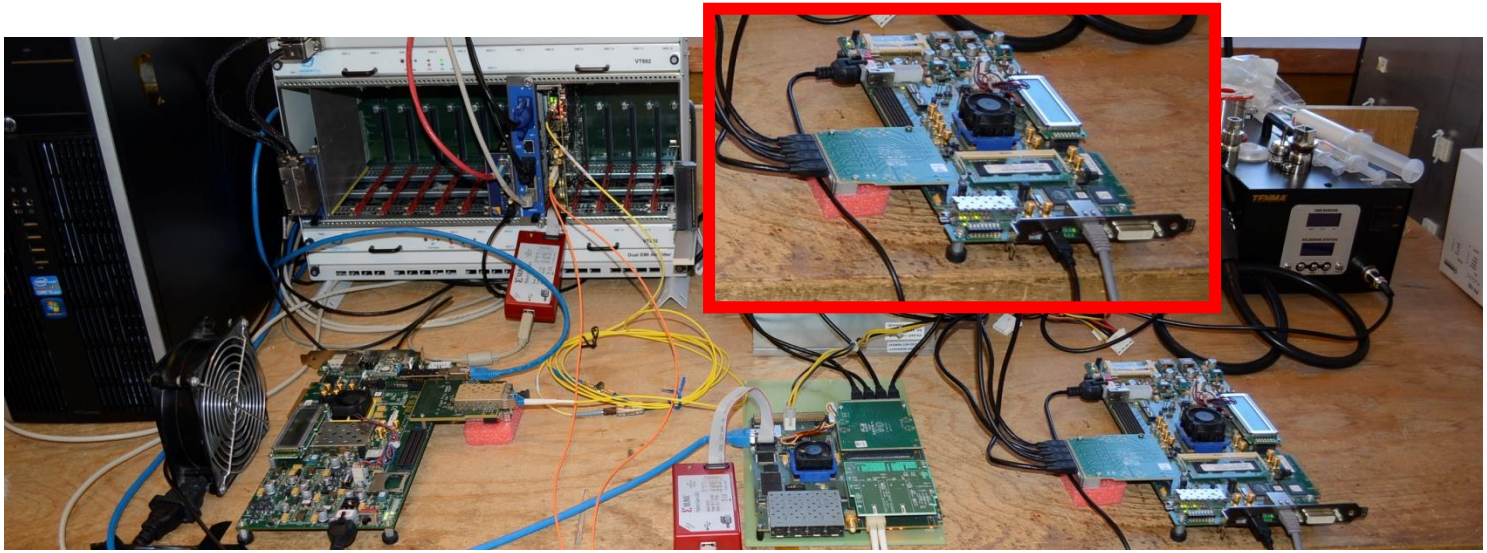
e-LINK FMC

- Prototype (fully functional)
- Availability to community?



Summary

- GLIB is an FPGA-based board for users of high-speed optical links in HEP
- Platform for GBT-based link developments.
- Served well the purpose, time to end production
  - Last orders by September 2014
  - Support will continue
- TTC FMC still an active product
- Availability of AMC Bridge and S-Link FMC to be clarified soon