GLIB STATUS

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(on behalf of the GLIB team)

xTCA interest group meeting
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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
Interconnection systems for High Energy Physics (HEP) experiments

- **Current generation:**

  - Front-End Cards
  - Back-End System
  - Timing/Trigger/Ctrl
  - DAQ
  - Rad Hard
  - 800 Mbps (up to 1.6 Gbps)

- **New generation:**

  - Front-End Cards
  - Back-End System
  - Timing/Trigger/Ctrl & DAQ
  - Rad Hard
  - 4.8 Gbps
GBT, Versatile Link and e-Link in new generation HEP interconnects
Where does GLIB fit in future HEP systems?

- **Baseline configuration:**

- **Intermediate Prototyping Configuration:**
- **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?
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