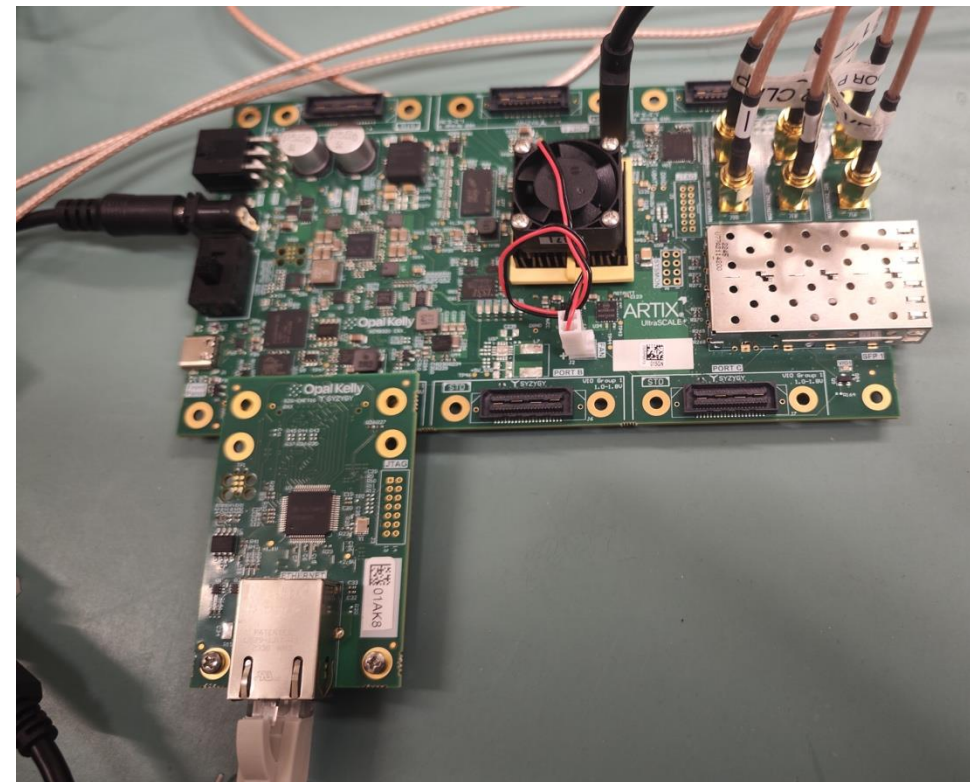


ETROC2 with XEM8320 Development Kit



Specifications:

- XEM8320 (XCAU25P);
- ETROC2+LGAD test board (not ETL module);

Functions in firmware:

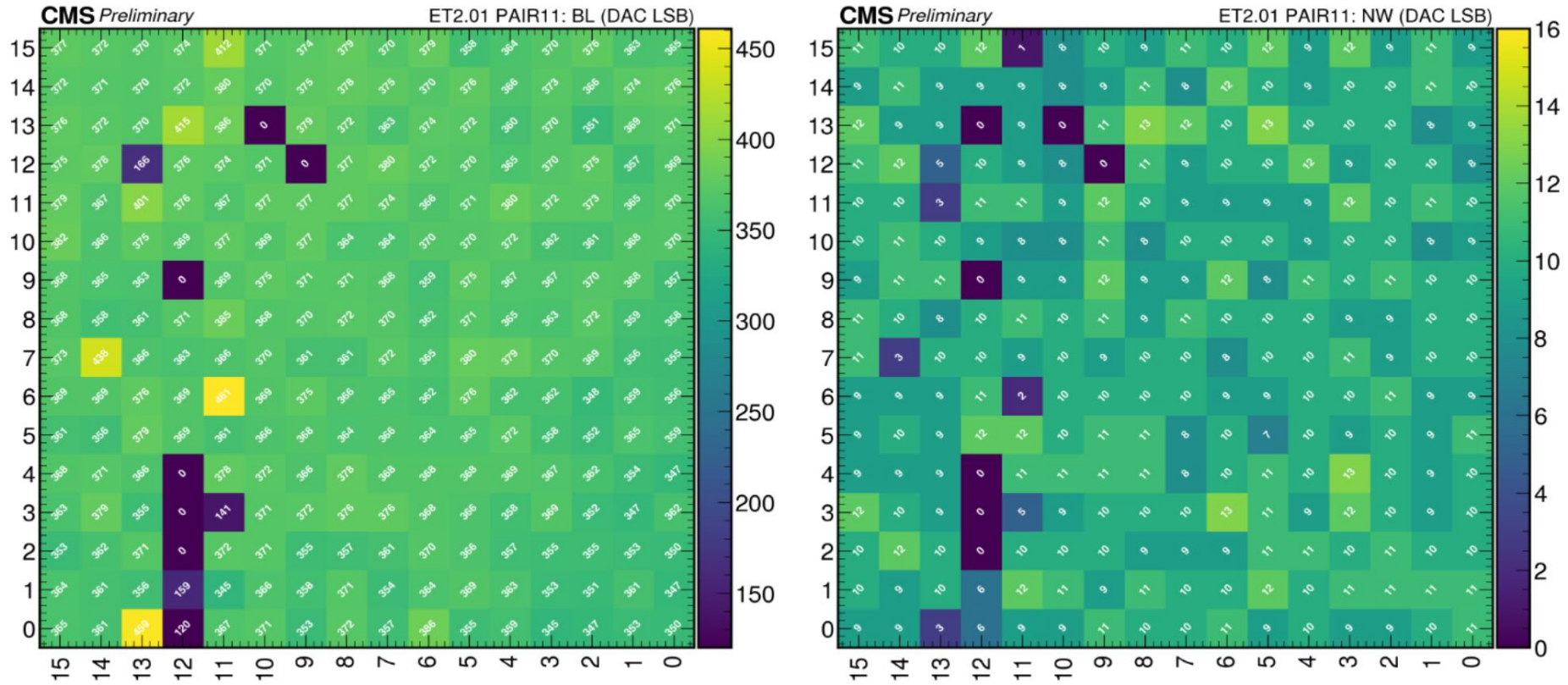
- Between FPGA and ETROC: fast command and data by GTY @ 1.28Gbps
- Between PC and ETROC: I2C by USB-ISS @ 100kbps
- Between PC and FPGA: control and data by Ethernet @ ~1Gbps

Status

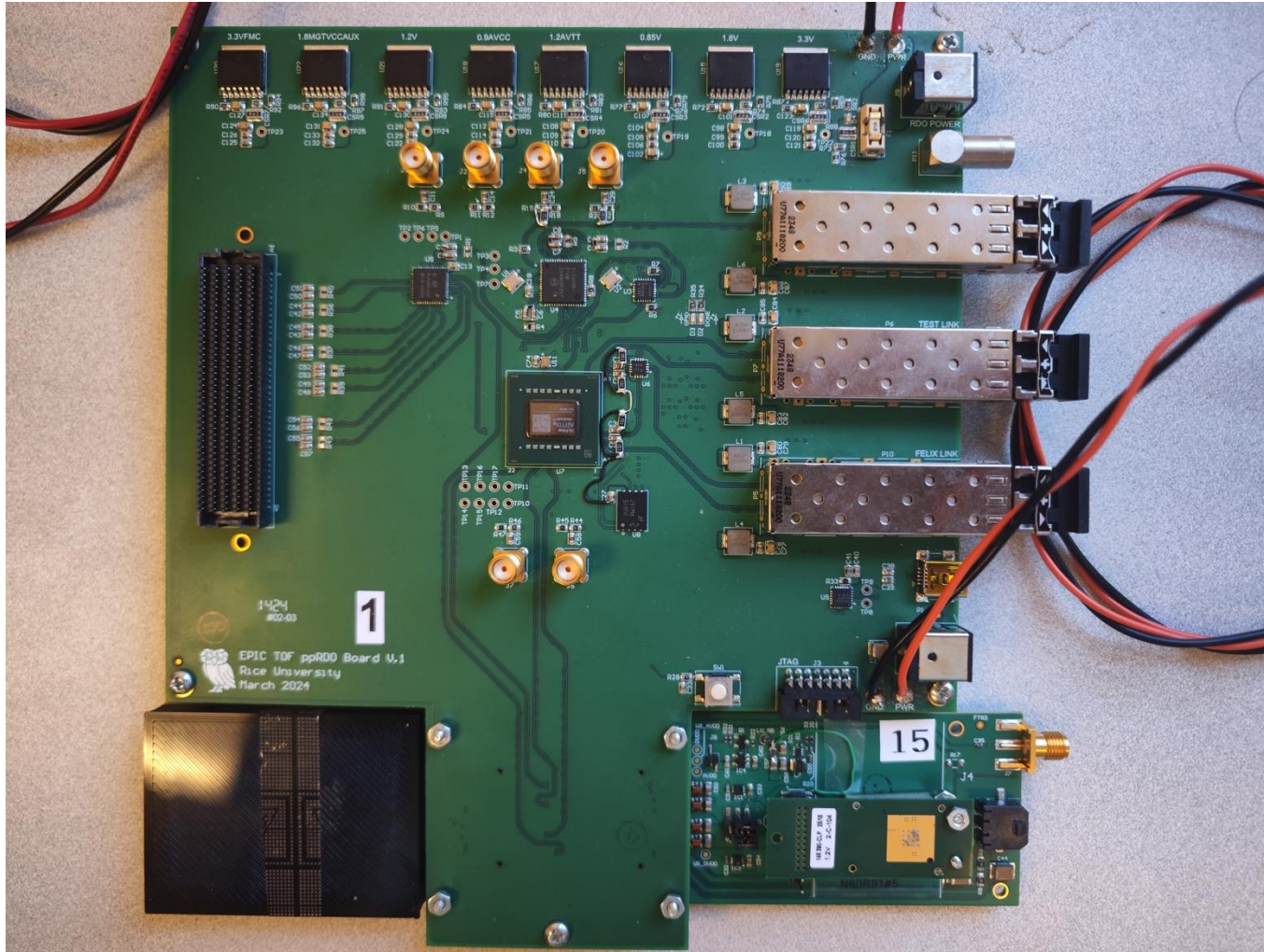
- ✓ I2C
- ✓ Fast Command
- ✓ Data R/O
 - ✓ Receive trigger from ETROC, send L1A to ETROC, read data from ETROC
 - Get data by charge injection - to be investigated with a bare ETROC2

ETROC2 with XEM8320 Development Kit

@2024-09-24



Next Step: ETROC2 with ppRDO



Questions about ppRDO and ETL module board

- Where to power up the ETL module board and what is the working voltage for it?
- Where to power up the ppRDO and what is the working voltage for it?
- Is JTAG the port for FPGA programming?
- Where to find the latest firmware project?

[ppRDO schematic](#)

[Module board schematic](#)