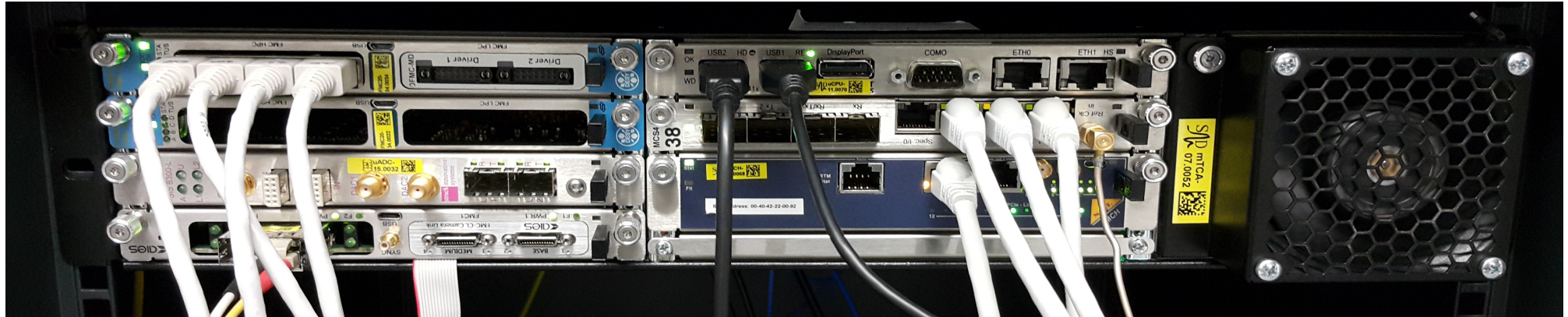


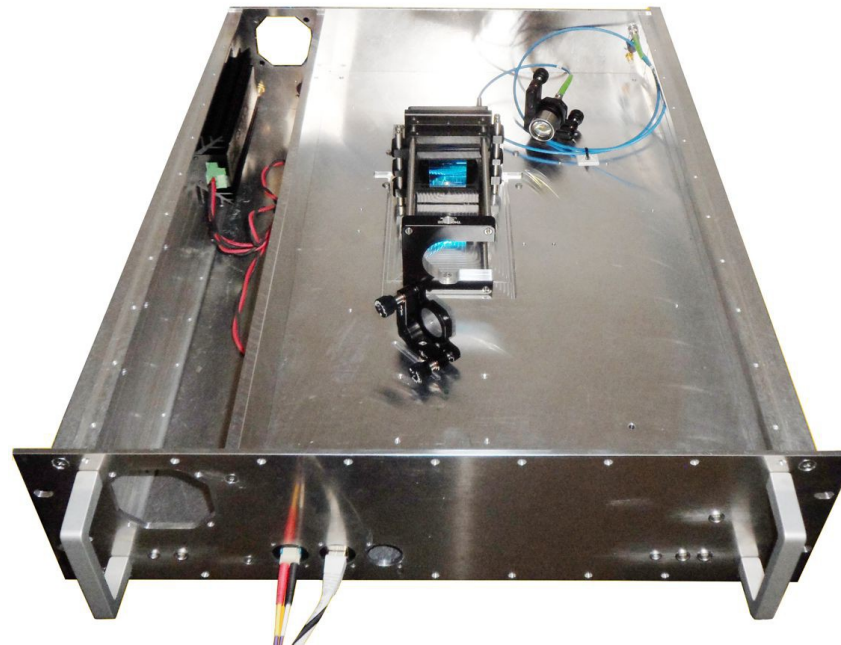
EOD spectrometer based on MicroTCA.4 platform

Dariusz Makowski
Aleksander Mielczarek

Current Design



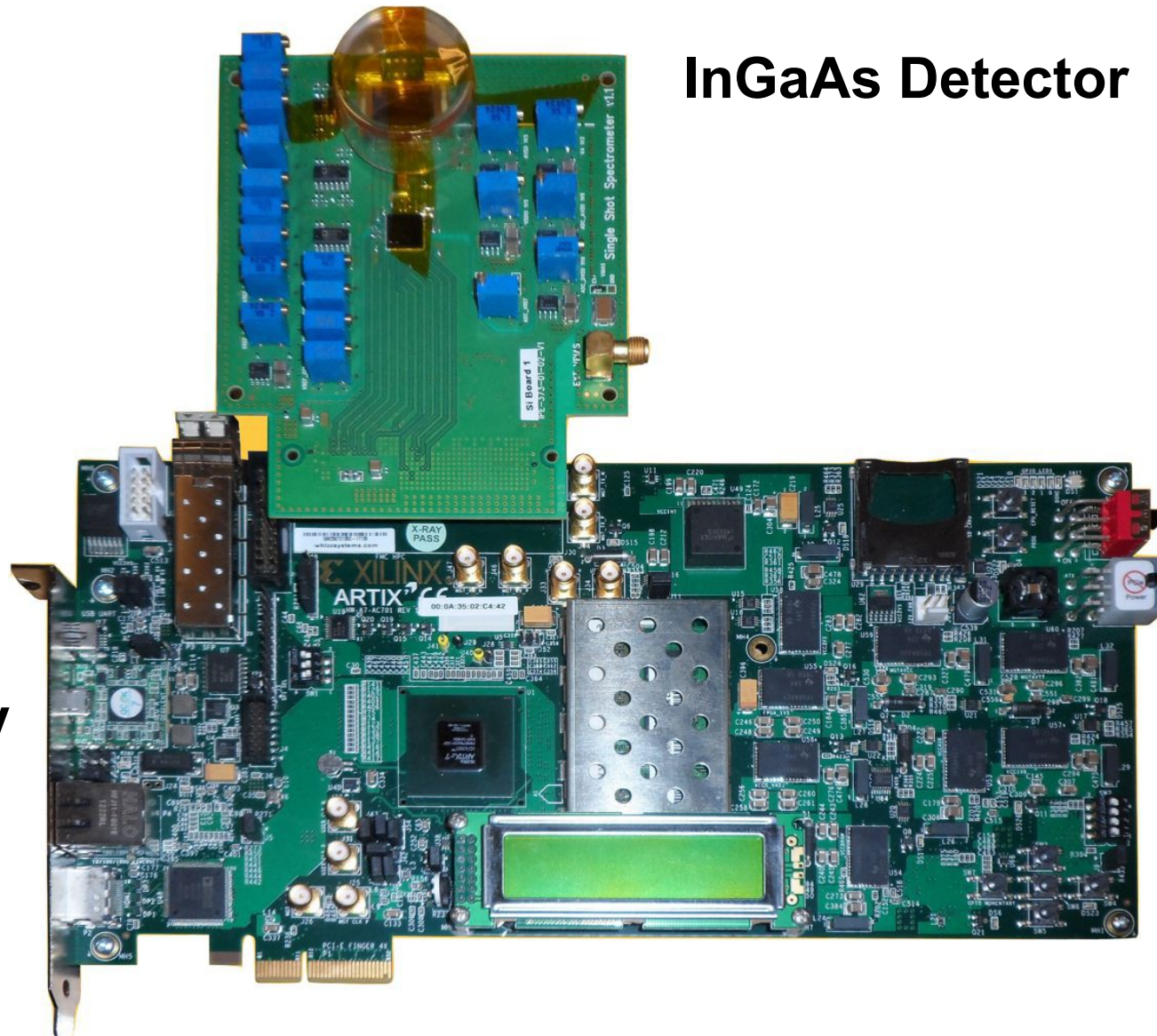
MicroTCA.4 Chassis



EOD Spectrometer Prototype

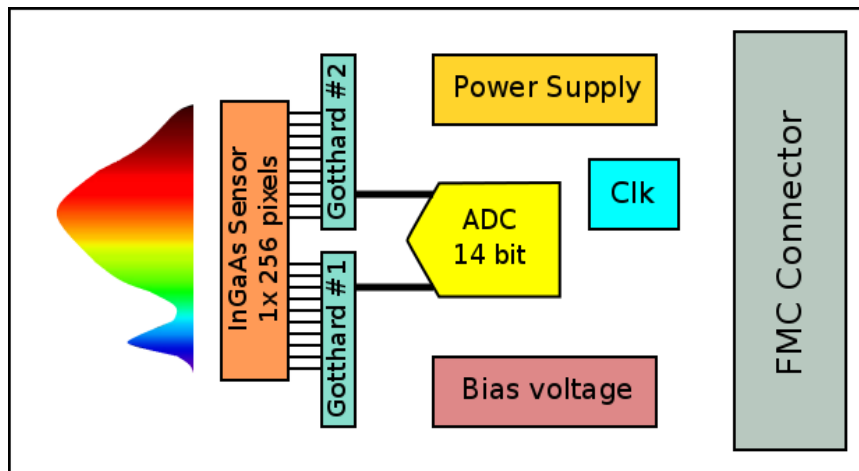
Detector Module with DAQ Board

Artix FPGA
SFP+
Optical Link
DDR3 Memory

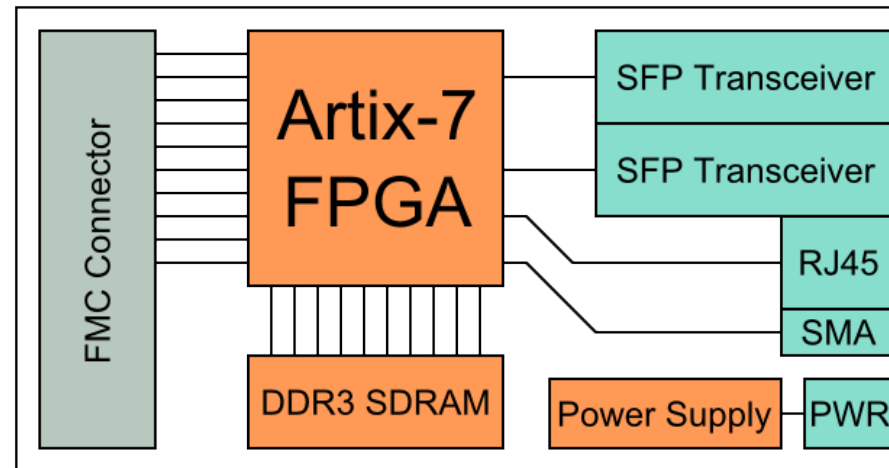


InGaAs Detector

1D Detector for XFEL



Sensor module



Carrier module

- Current prototype of 1D detector operates with 1 MHz frame rate
- The XFEL 1D detector should work with 4.5 MHz

Plans for the Future

- Develop specification for 1D detector
- Develop conceptual design
- Integrate all subsystem on the carrier module
 - Power Supply
 - Detector bias voltage
 - Clock and synchronisation receiver
- More optical links (data acquisition, LLRF feed-back signal)
- Better mechanical construction

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