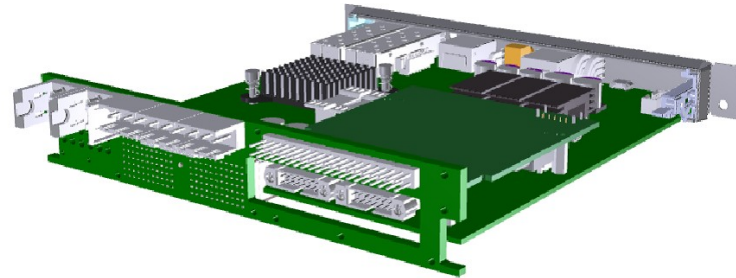
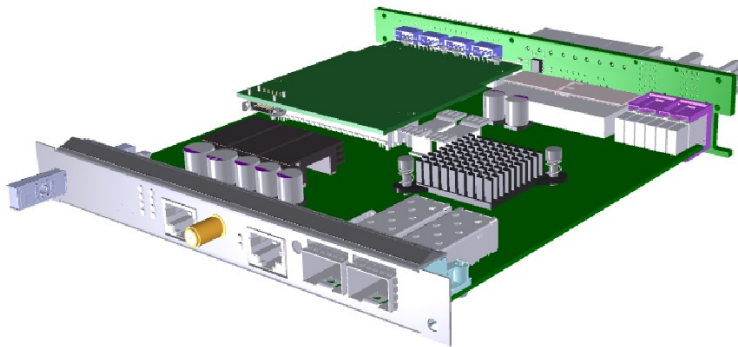


Status of TMCB2 + TMCB-backplane



Marie Kristin Czwalińska

Status of TMCB2 + TMCB-backplane

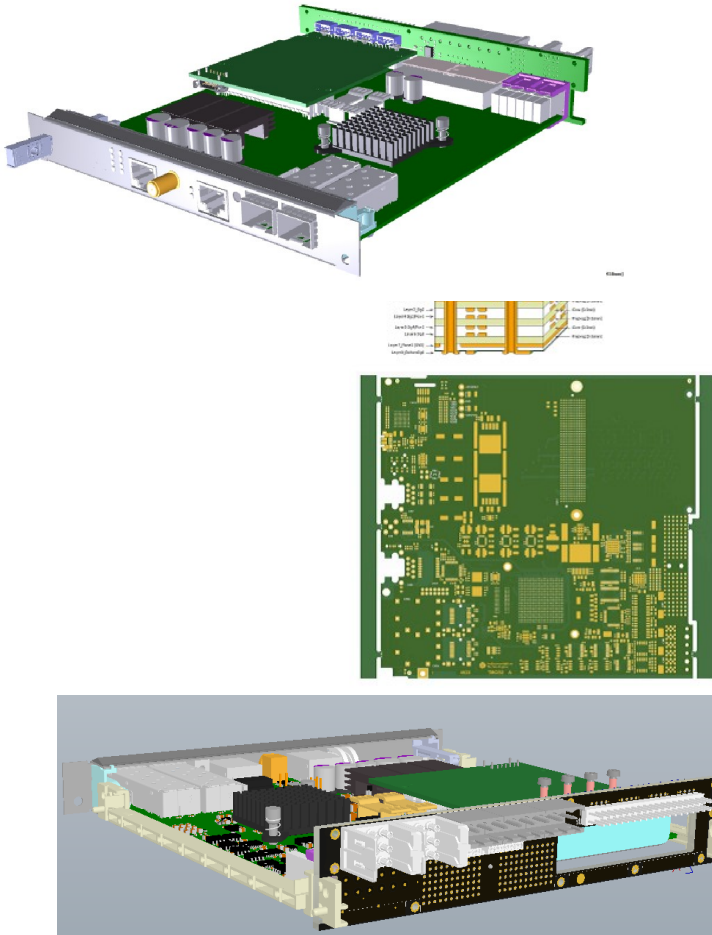
MSK collaboration workshop
Hamburg, 12. - 13. May 2014

> TMCB2

- design by Instrumentation Technologies
- 8 layers PCB
- Spartan6 + board management function (MMC)
- MTCA.4 frontplate (double width, mid-height)
- 2x SFP+ (3.125 Gbps), 1x Ethernet, 1x Trigger input, micro-USB (FW uploads)
- 24 analog channels (14 ADCs, 10 DACs)
- 20 GPIO (configurable 3V3/5V)
- 2x I2C (1x interface to FRED, 1x user-I2C)
- 4x temp. sensor inputs (4-wire)
- FMC (low-pin count; with additional power supply 12V/7V)

> Backplane

- in-house design (S.Hanasz)
- vertical backplane, 10 layers
- fits into 1U chassis
- mechanical frame from Elma



> TMCB2

- ✓ final review done
- ✓ I-Tech is now applying last corrections
- ✓ Ordering of components started
- production of 14 boards will start immediately
(prototype board ~ 2.4 kEur)
- **projected delivery : 18.06.**

> TMCB-backplane

- ✓ final review done
- last corrections to be implemented
- final version to be send to I-Tech
- depending on price?
production at I-Tech or other.
- **delivery date latest 18.06.**

> mechanical fixture for TMCB2+backplane

- ✓ step-models and information send to Elma
- ✗ design pending (50% done): delayed by tedious communication problems
- appointment at Elma on 15.05. for clarification
- **delivery date: ?**