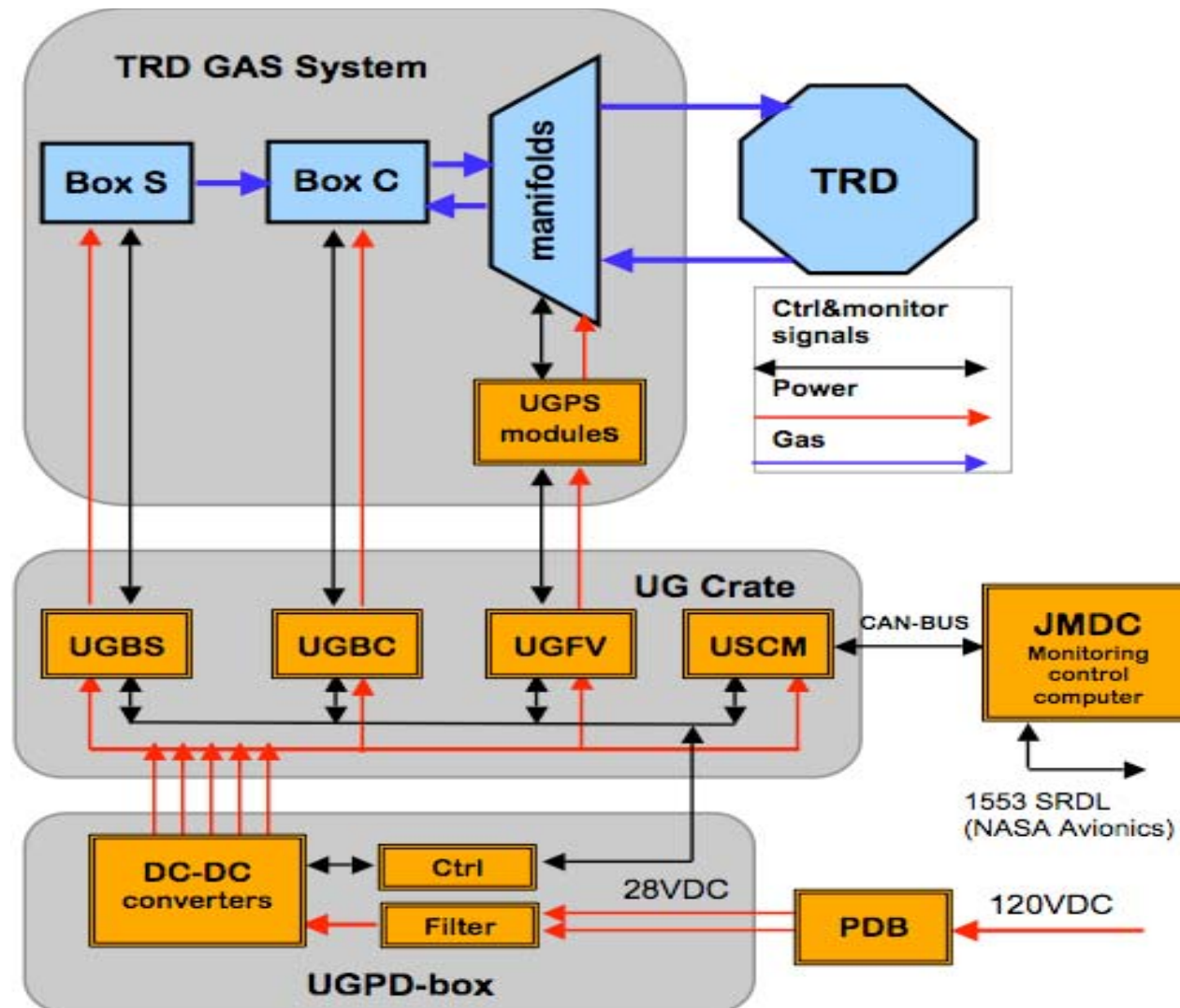


UG-Crate Update

Nov. 20, 2007

A.Bartoloni, B.Borgia, F.Spada

INFN Rome



2 boards to control the BOX-S (**UGBS**)

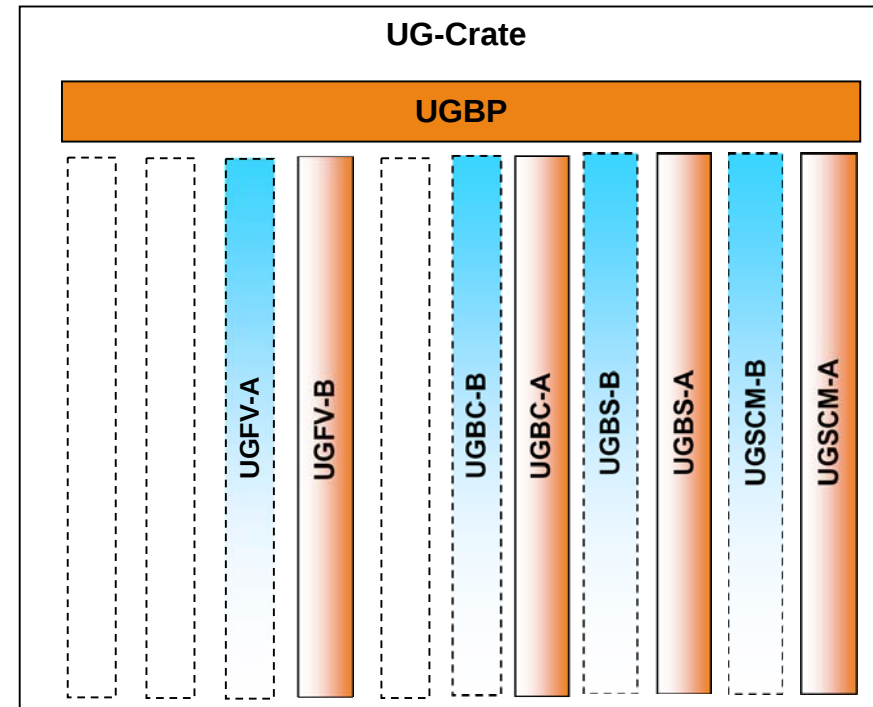
- 14 solenoid valves
- 5 heater
- 7 pressure sensors
- 1 Dallas temperature sensors chain

2 boards to control the BOX-C (**UGBC**)

- 2 circulation pumps
- 4 solenoid valves
- 2 pressure. sensors
- 1 CO₂ analyzer (RS232)
- 1 MCA (RS232)
- 1 monitor tubes

2 boards for Manifold control

- 2 to control the 40 flipper valves located in the manifolds (**UGFV**)
- logics for 20 pressure sensor signals multiplexing will be inserted in the UGFV boards



 A boards (hot)

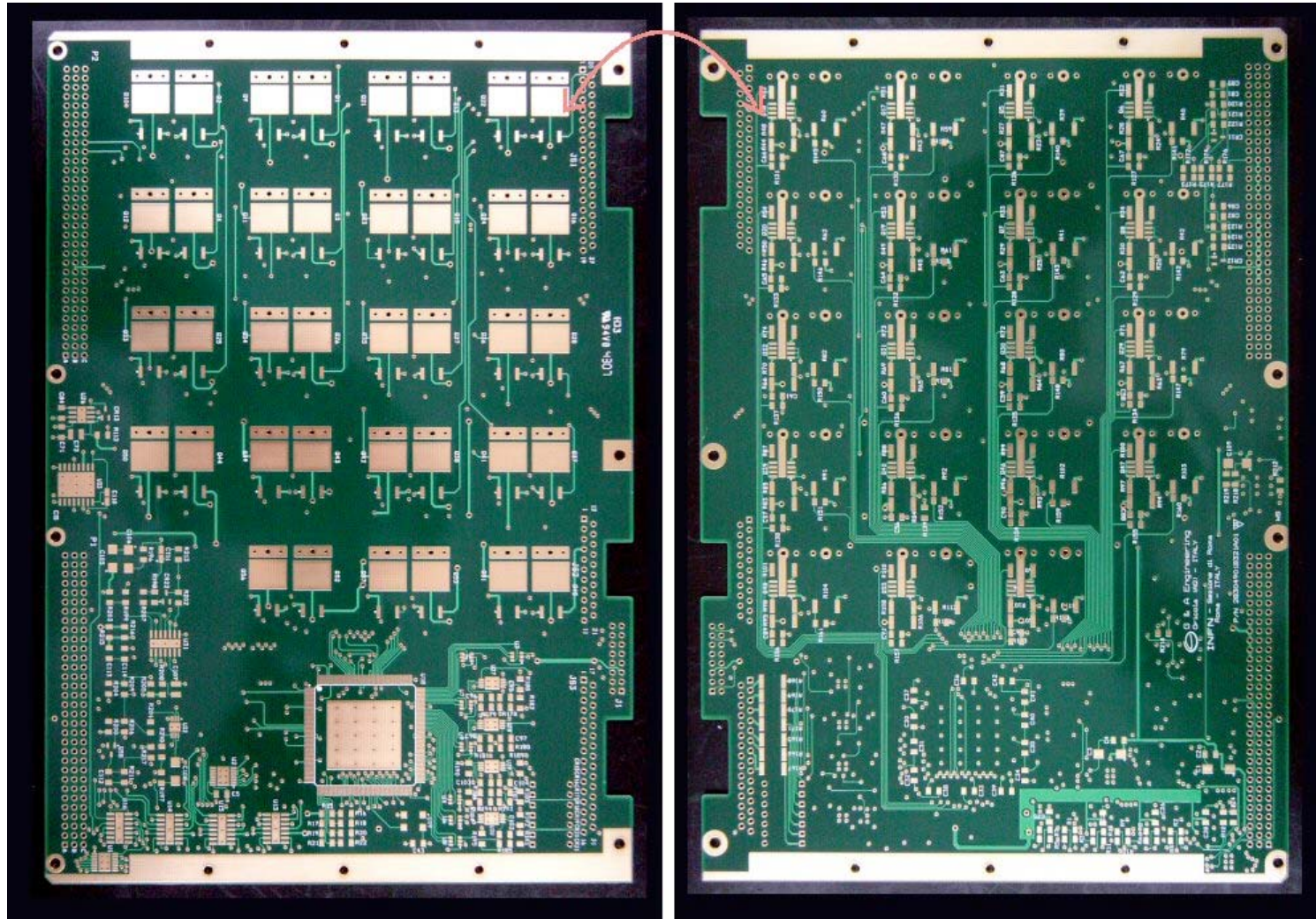
 B boards (cold)

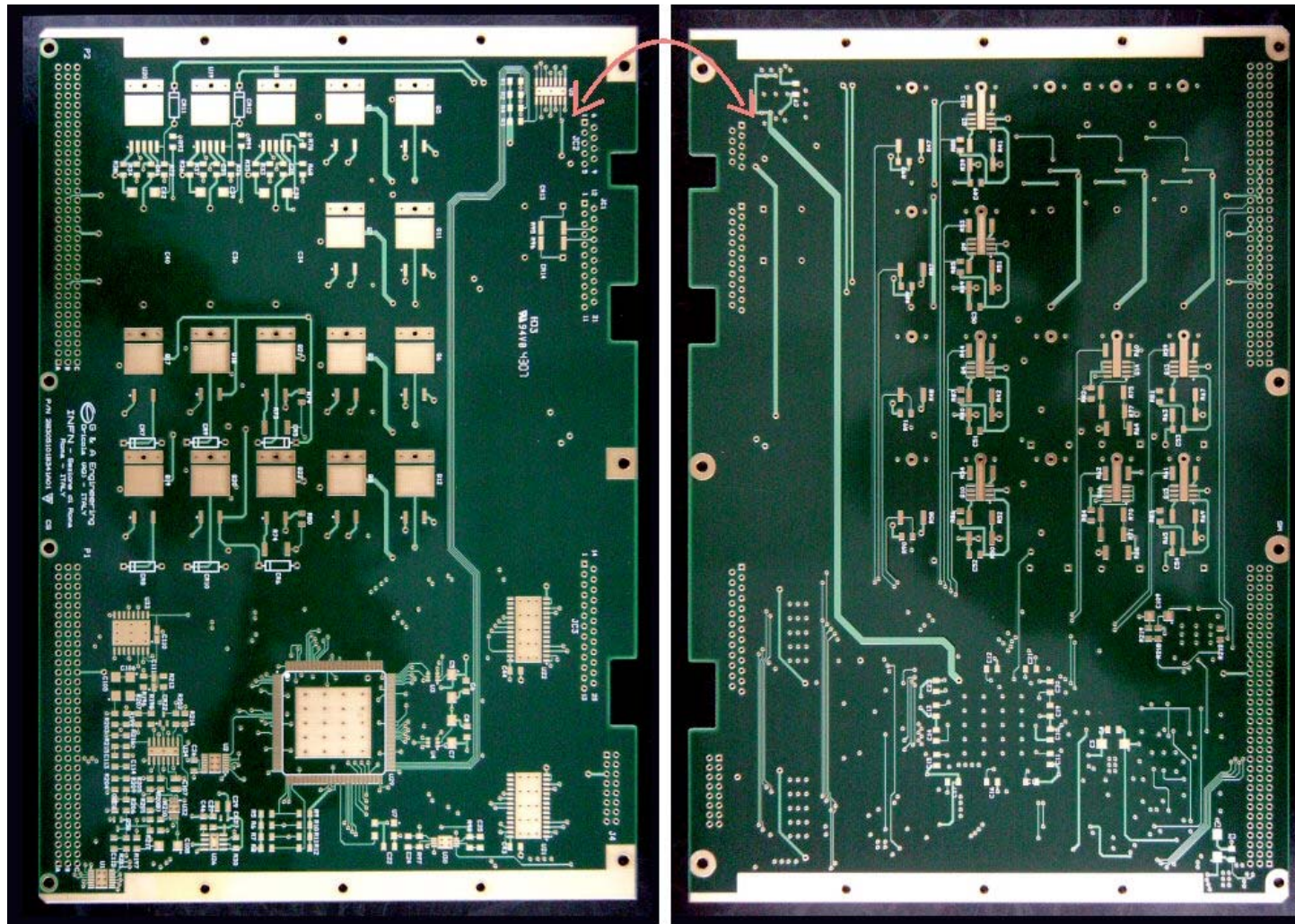


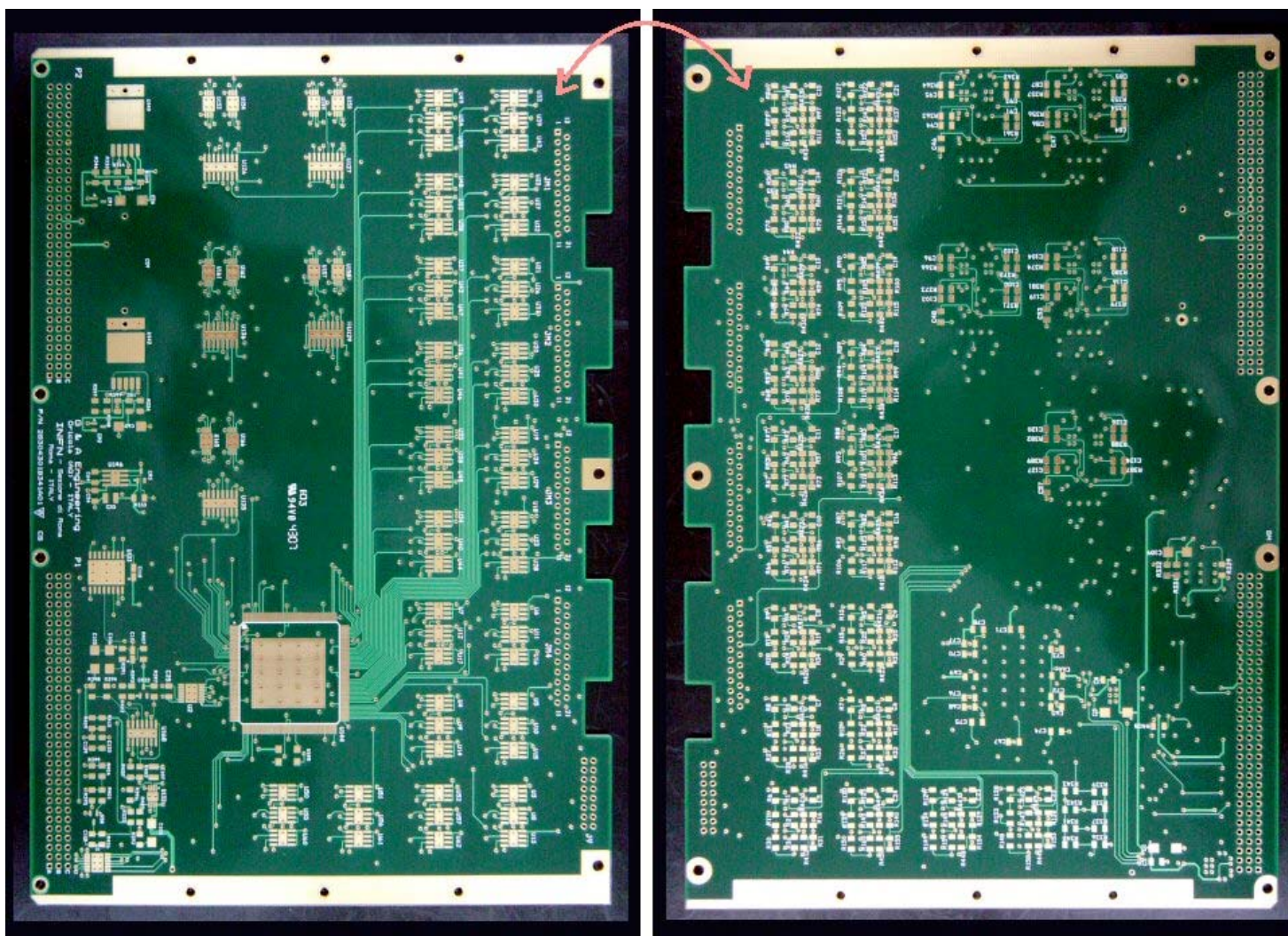
UG-crate Status



- FM UGPS ready and tested at Aachen
- QM1 UG-crate currently used for Gas System tests
- UG control software and user interface used successfully on QM1 electronics
- QM2 UG-crate pcb ready
Not all components available yet









UG-crate Schedule / QM2



this week	components from MIT (M.C.) delivered
30/11/07	all components delivered to G&A
15/01/08	QM2 boards ready functional tests
30/01/08	ready to start qualification tests (SERMS)
15/02/08	end of qualification tests ready to start tests at CERN
28/02/08	end of tests at CERN



UG-crate Schedule / FM



30/03/08	FM boards delivered by G&A
15/04/08	end of FM boards acceptance tests

GSE needed:

- pc with CAN-bus interface to UGSCM
- power supply:

UGPD available?

Otherwise, we need

- 29V A + B
- 12V A + B
- 5V A + B

Procedures:

- power on/off
- diagnostic procedures:

TRD Gas System available?

Otherwise, we can use our GasSys simulator

