



LHCb Upgrade Electronics

Meetings in 2015 (Thursday, 2pm, 13-2-005):

18th June

13th Aug

8th Oct

3rd December

<http://lhcb-elec.web.cern.ch/lhcb-elec/html/upgrade.htm>

Mailing list:

Go to egroups.cern.ch, search for lhcb-upgrade-electronics



Common components

Updated version of GBTX manual

new recommendations for power-up sequence

<https://espace.cern.ch/GBT-Project/GBTX/Manuals/Forms/AllItems.aspx>

Procurement on-going for:
GBTXs, VTTx, VTRx, DC-DCs

GBT-SCAs: see talk

NB: small quantities are still available to early users

Demo board..... Coming soon



Future sub-detector tests: hardware/firmware/software

Proposal from PCIe40 team: MiniDAQ based on PCIe40

The production of the PCIe40 boards is foreseen between end-2015 and mid-2017.

MiniDAQ based on PCIe40 could be produced when the production starts. It will be based on a 1 PC server and 1 PCIe40 board. The PC server and its configuration will be chosen by the online group.

MiniDAQ can acquire up to 100 Gb/s and analyse the data. The amount of recorded data depends on the disk size (1TB \rightarrow 80s @ 100 Gb/s)

The cost has to be determined (≤ 15 kCHF). It strongly depends on the PC configuration and currency exchange rate.

Send a mail to Jean-Pierre **before end of April** if you want to order one.

Power supply maintenance

Wiener Maraton power supplies:

Decision to replace internal elbow cooling connectors

Relatively simple procedure

Timetable to be established

LHCb has 99 units:

75 installed at point-8

where are the others?

are they in operation?

replace connectors?



Upcoming Reviews/Meetings

Calo EDR: ICECAL ASIC, 24th April

UT EDR: SALT ASIC, 22nd June

Velo EDR: VeloPix ASIC, end June/beginning July

..... and others to be defined

TWEPP workshop (abstract deadline 30th April)



TWEPP 2015

Topical Workshop on Electronics for Particle Physics

28 September - 02 October 2015
IST - Lisbon - Portugal