



# LHCb Upgrade Electronics

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Meetings in 2012 (Thursday, 2pm):

16<sup>th</sup> February

12<sup>th</sup> April

14<sup>th</sup> June

9<sup>th</sup> August

11<sup>th</sup> October

13<sup>th</sup> December



# Upcoming meetings

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## TELL40:

Expressions of interest for firmware development  
Discussions to start in January: more help welcome!

## Next general meeting:

Sub-detector ideas for using the GBT-SCA



# Specifications documents

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1. Versatile link VTRx specification:

<https://edms.cern.ch/document/1140665/1>

2. GBT-SCA (slow control adapter) to connect to GBT

[http://lhcb-elec.web.cern.ch/lhcb-elec/upgrade\\_docs/GBT-SCA\\_v4.3.pdf](http://lhcb-elec.web.cern.ch/lhcb-elec/upgrade_docs/GBT-SCA_v4.3.pdf)

3. GBTX

<https://espace.cern.ch/GBT-Project/GBTX/Specifications/gbtSpecsV1.7.pdf>

# Updated link estimates

Sub-system	No of DAQ links	Old estimate
Velo (pixels, worst case)	2500	2208
Velo (u-strips, worst case)	1600	
RICH (MaPMT)	1680	2476
TT (u-strips, worst case)	1700	1200
Tracker (Sci-Fi)		
OT (straws)		3456
Calo	1000	1000
Muon		
TORCH		



# Tell40 test requirements

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Calo:

2+ 'complete' systems needed: 2012?

Muon:

1 motherboard, 2 AMCs, TFCs: mid 2013

OT:

Thinking about it with Rio – see later talk