

CONTROL BOARD

Timing and ECS upgrade for LHCb ECAL Crate

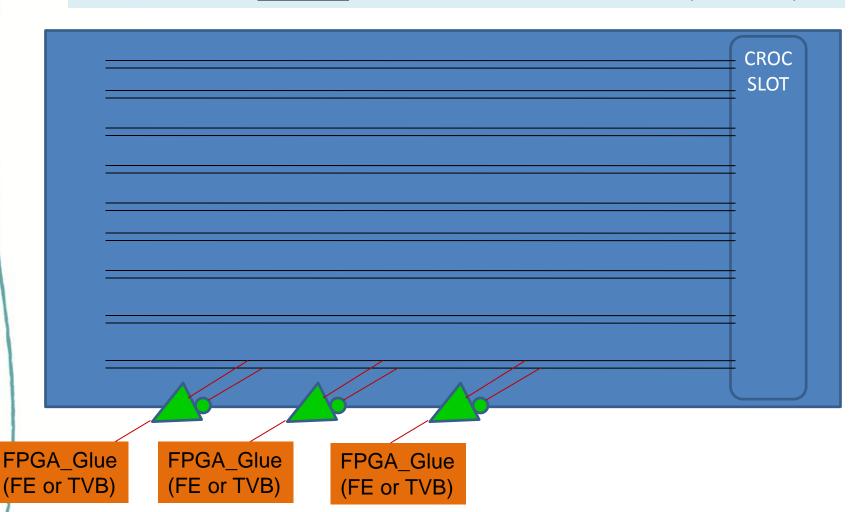
Cyril Drancourt





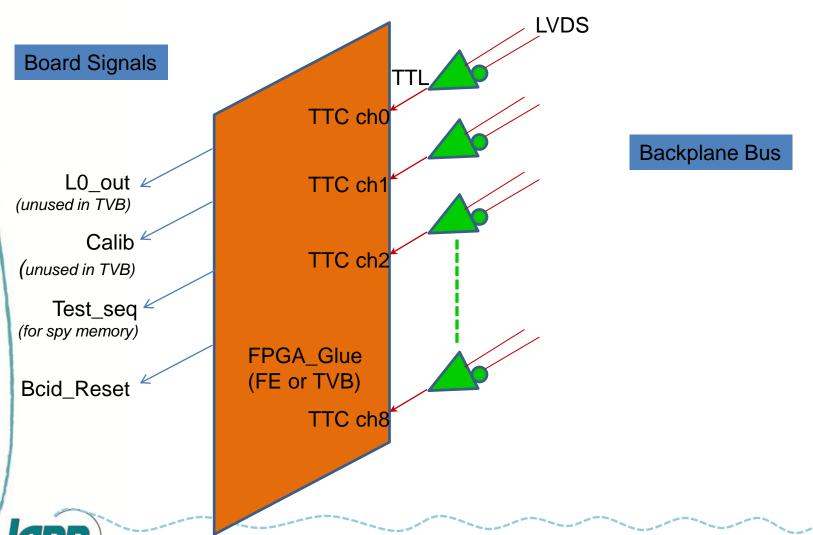


Current backplane bus TTC bus: 9 LVDs Line - CROC to all board (FE or TVB) -

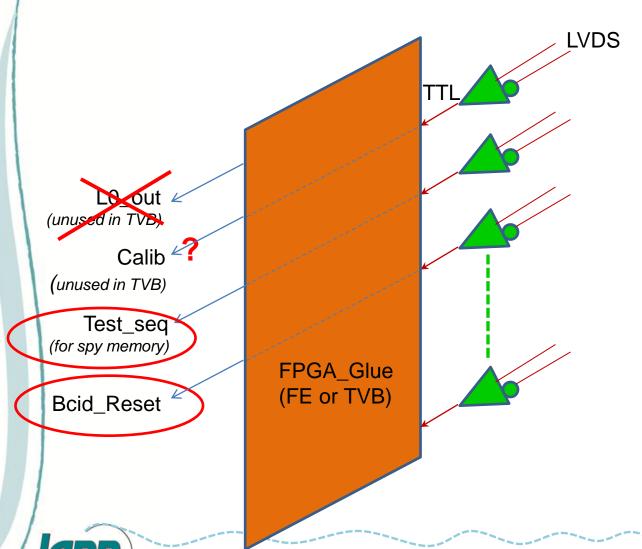




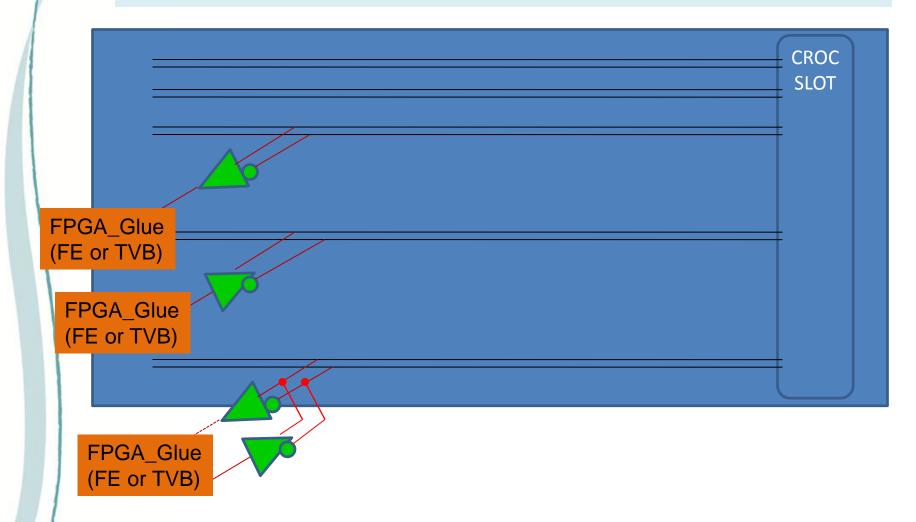
Current backplane bus TTC bus: 9 LVDs Line - CROC to all board (FE or TVB) -



Needs for Upgrade



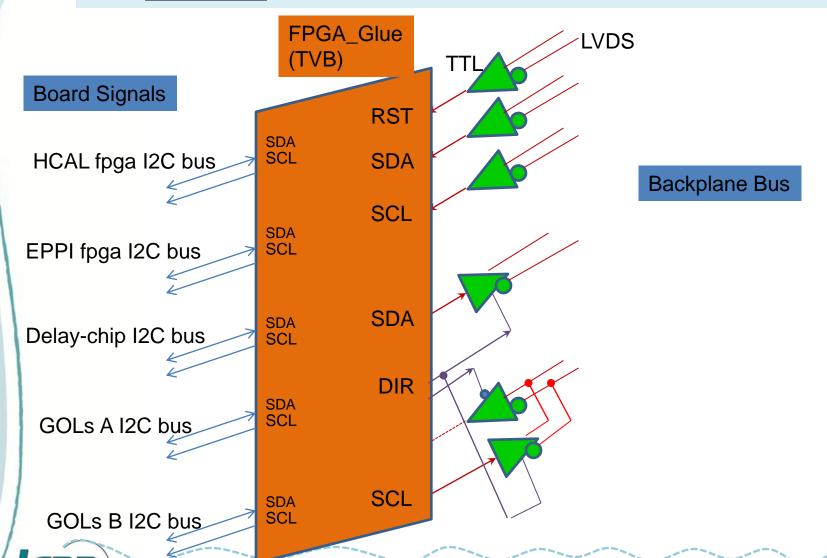
Current backplane bus SPECS bus :5 LVDs Line - 3 CROC-out, 1 CROC-in, 1 CROCinout -



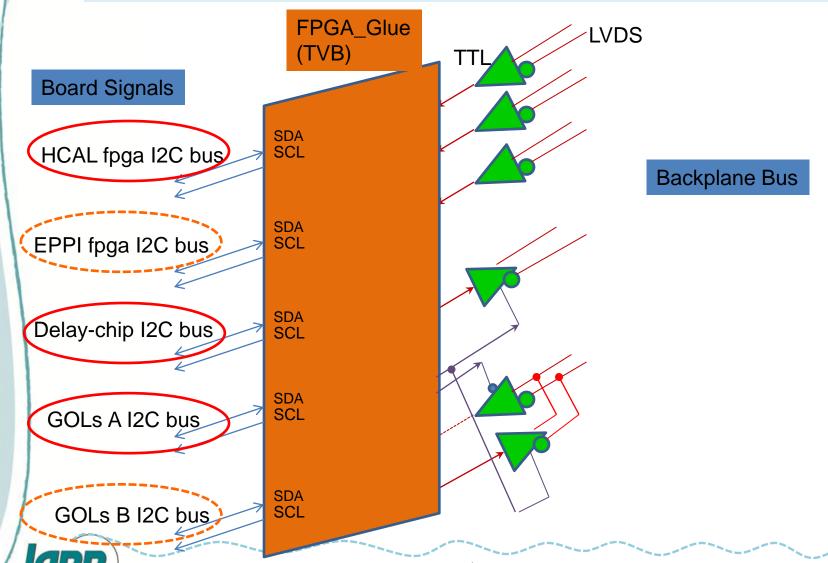


Current TVB used

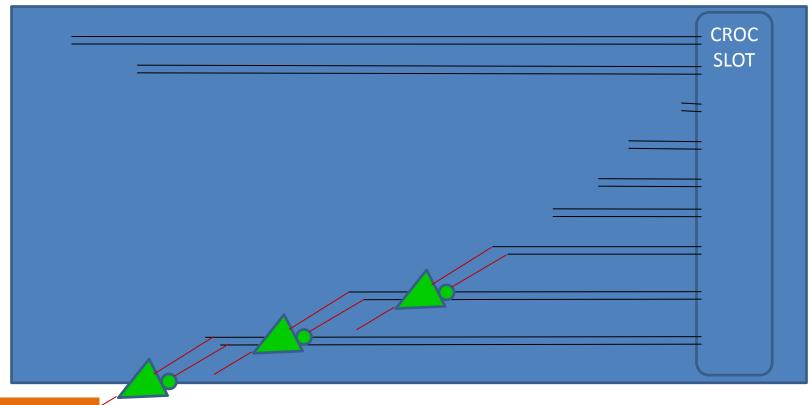
SPECS bus: 5 LVDs Line - 3 CROC-out, 1 CROC-in, 1 CROCinout -



Needs for Upgrade



Current backplane clock 1 LVDS Point to Point- CROC to each board (FE or TVB) -



(FE or TVB)



Current TVB clock

1 LVDS Point to Point - CROC to each board (FE or TVB) -

Need to keep for upgrade

repeater

Backplane side

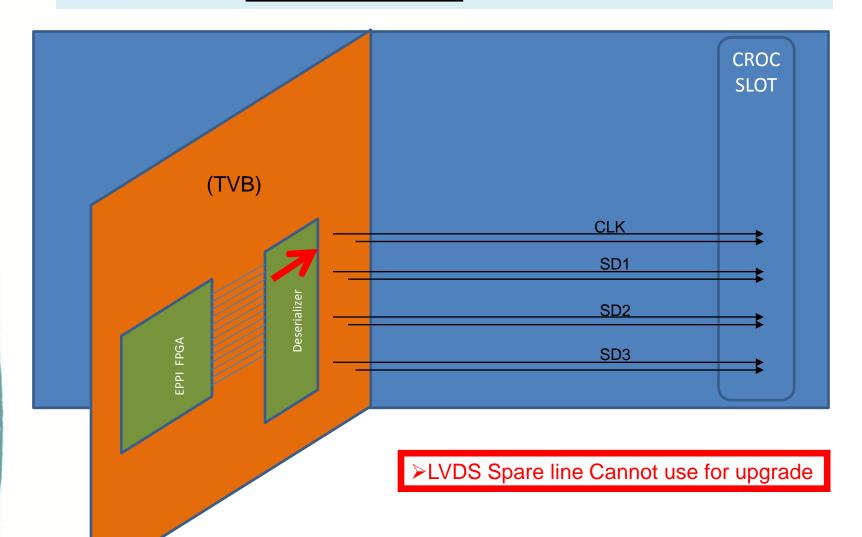


DelayChip (TVB)



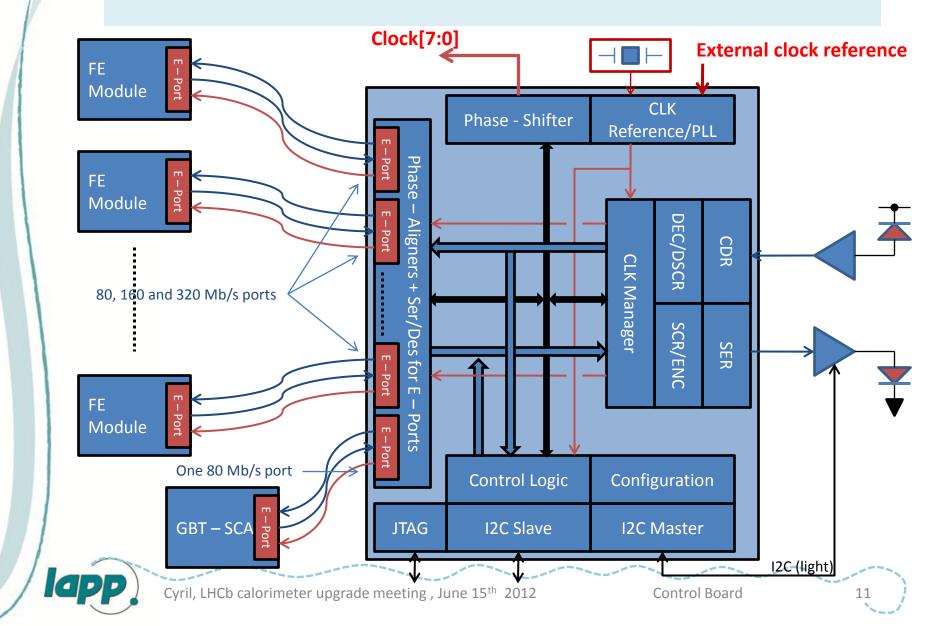
Board inside (TVB)

Current backplane Spare 4 LVDS Point to Point- CROC to each TVB -

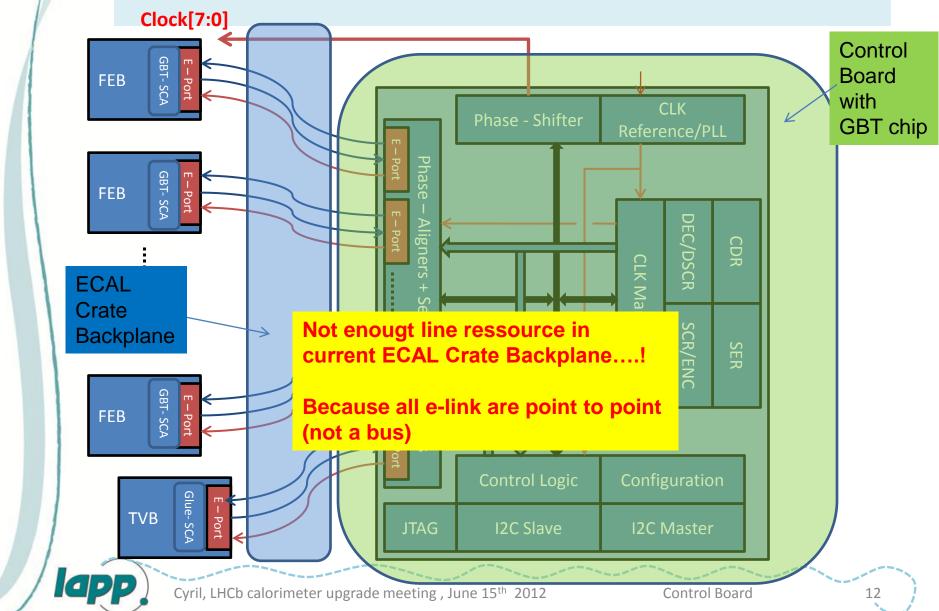




TFC+ECSInterface to FE GBT link for upgrade



TFC+ECSInterface to FE ECAL crate application



TFC+ECSInterface to FE ECAL crate application

