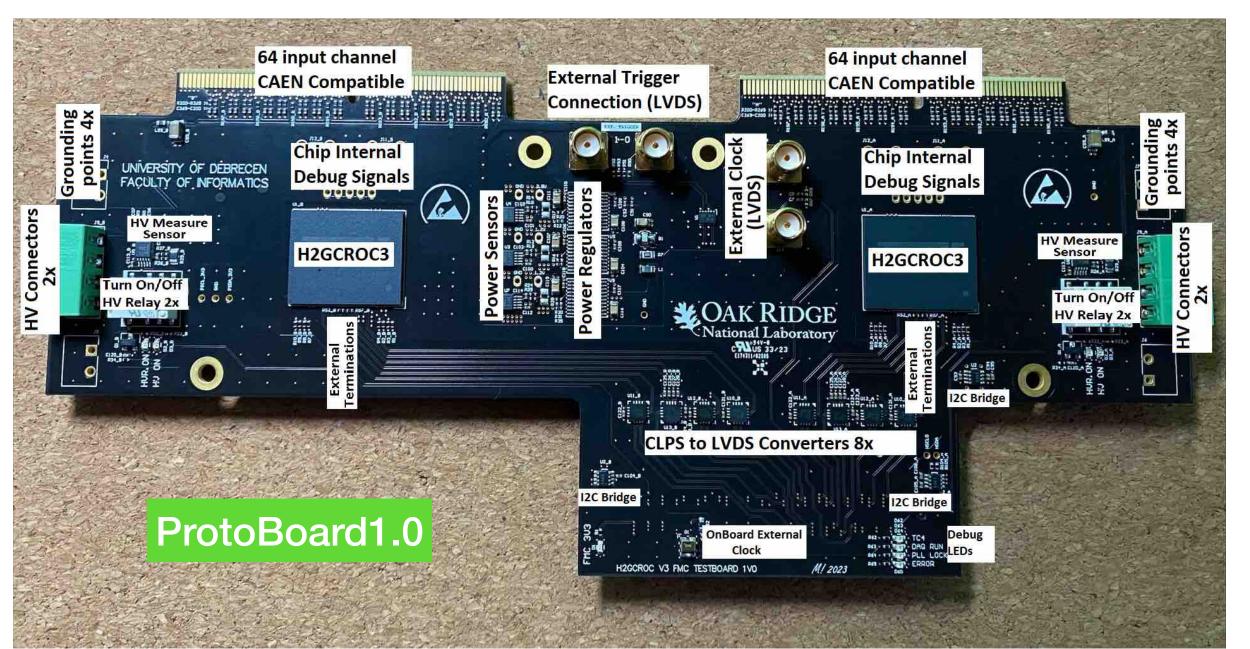




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HGCROC ProtoBoard2.0

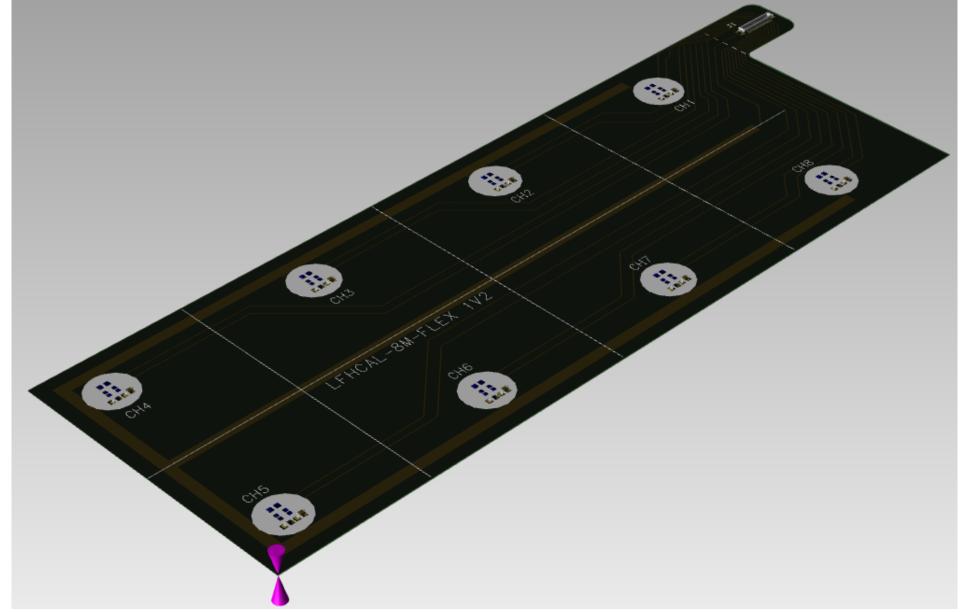


H2GCROC3A arrived in Hungary for the new PCB production

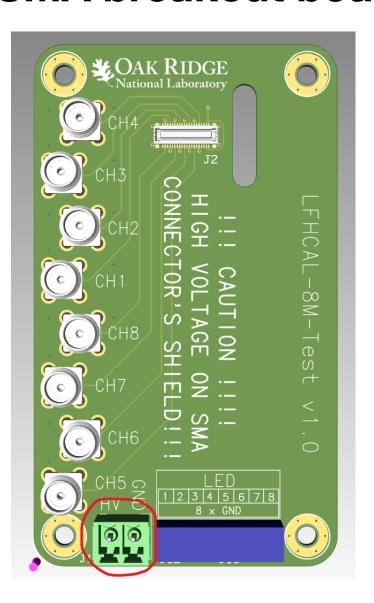
- H2GCROC3B:
 - Currently under testing in Omega and CMS groups
 - All the bugs from the 3A seems to be fixed, good data with 32 consecutive BX also
 - There is a 'race condition' at the ADC-TOT transition:
 - Now reproduced in the simulation
 - Mitigation will be done by fixing the top metal layers of the wafer (under investigation)
 - Then TSMC will keep the 2 engineering run
 - 50+ wafer should be soon arriving

LFHCal readout electronics

Flex board Board-to-Board connector



SMA breakout board



Flex board:

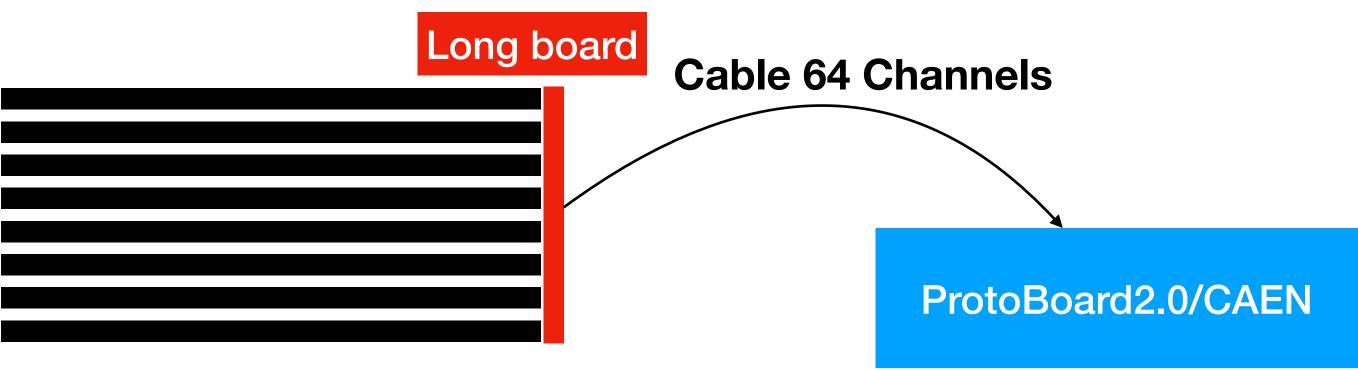
- 8xSiPM, 8x LED, connector
- Under production now

SMA breakout board:

- Compatibility with existing setup
- Under production

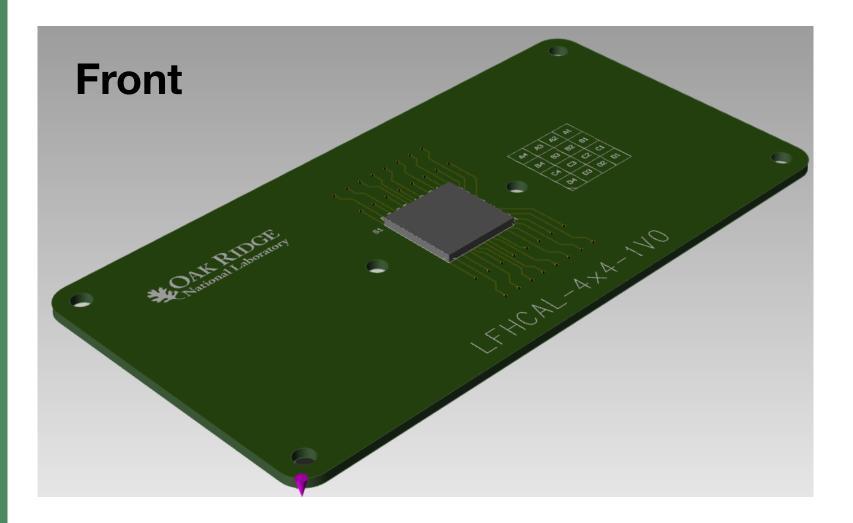
Long Board:

- v0 (8 channel) /May/:
 - just contains connector for a cable compatible with CAEN, Protoboard2.0
 - One input for LED drive (compatible with HGCROC)
- v1 (520 channels) /Aug/:
 - Careful traces towards the end of the detector





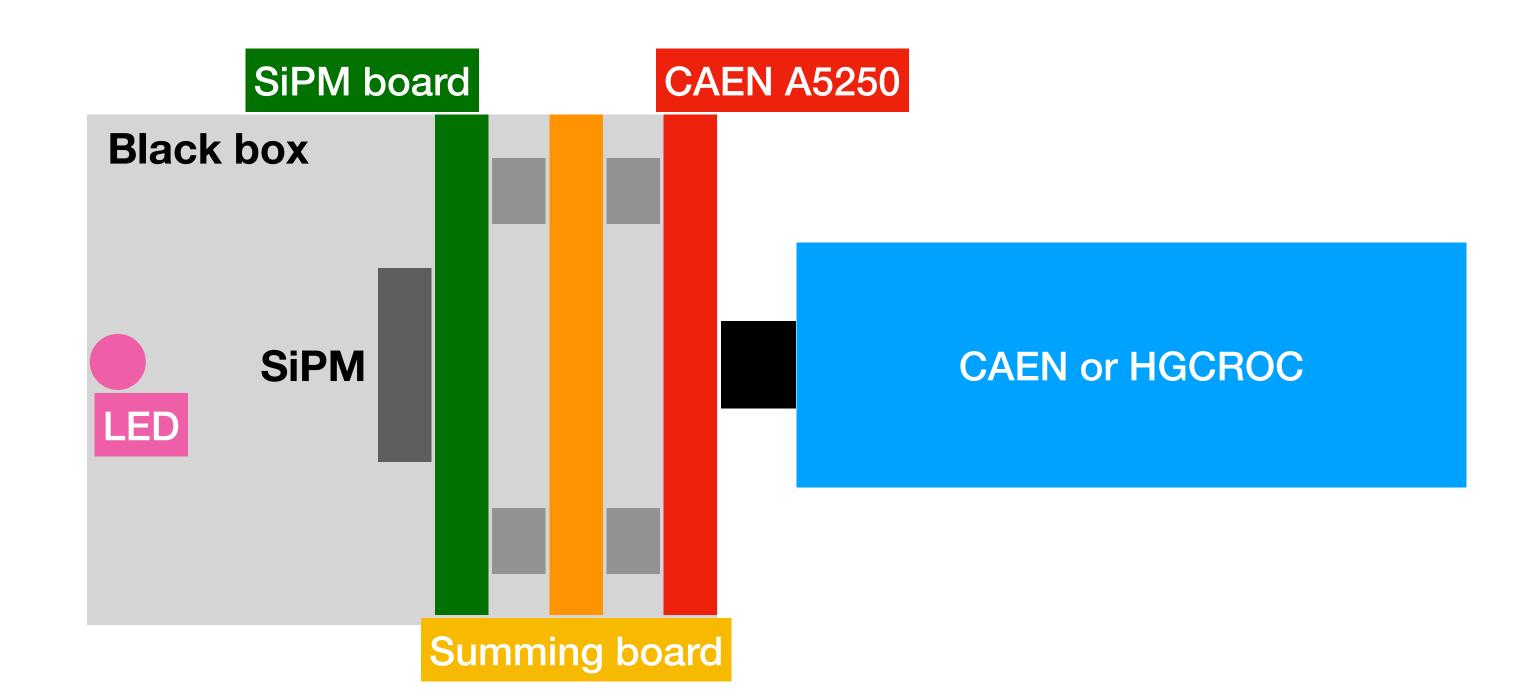
Summing board and prototyping



Received a 4x4 3x3 mm2 SiPM from Barrel Ecal group:

- Reconstructed by Hamamatsu
- Perfect for testing:
- 16 individual channels, should be easy to read with both CAEN/HGCROC
- Individual board, make modular test:
 - 1. Individual channels (16 channel setup)
 - 2. Summing 2x2 SiPMs (4 channel setup):
 - Different summing schemes will be explored
 - 3. Summing 4x4 SiPM (1 channel final[?] setup)

J2 J1 Gebor NAGY / Miklos CZELLER



Back