



BCM1F Beamgas & Albedo Logic



Outline

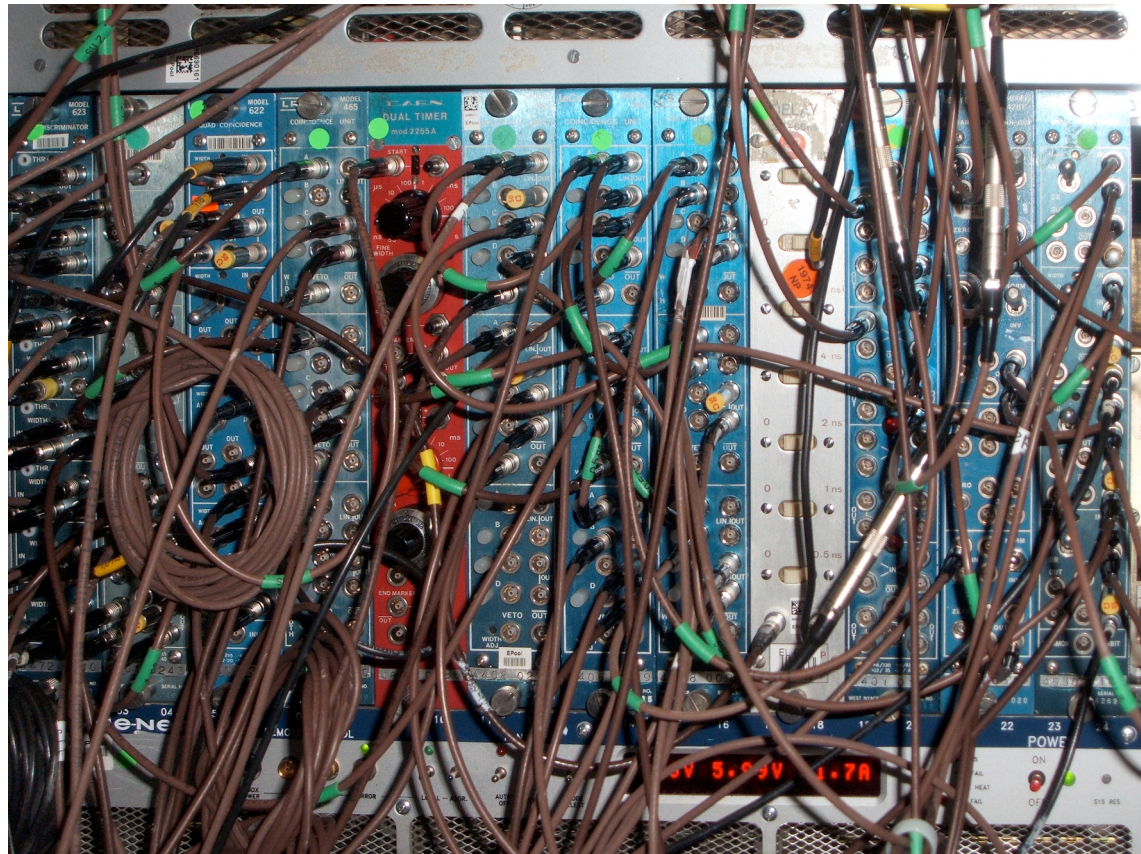
- Existing solution (wired NIM modules)
- Scheme
- Requirements
- Using a V1495 module



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Existing solution: A crate full of wired NIM modules

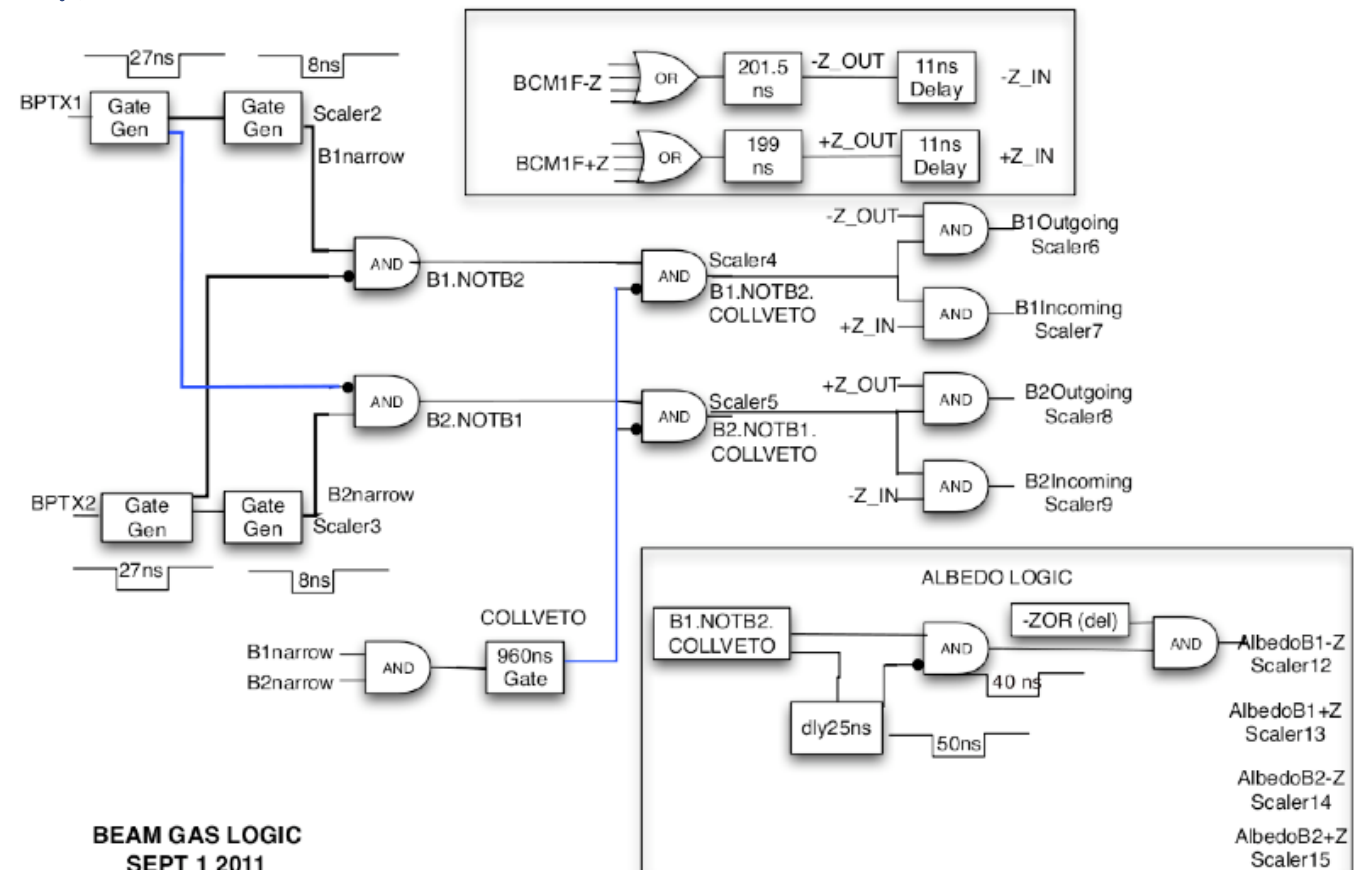




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Logics Scheme





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Requirements:

2 BPTX inputs

8 BCM1F inputs

min 8, max. 32 scaler outputs

9 Gates (8ns ... 960ns)

18 Delays (11ns ... 202ns)



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Solution with V1495:

- custom designed mezzanine
- 8 gate & delay chips/board
- up to 2 mezzanines/module
- fully programmable

Problems:

- bidirectional interface to FPGA
- 25MHz f_{max}

