

BeagleBone Expansion Headers

## TODO: connect these labels to BBB GPIO pins.

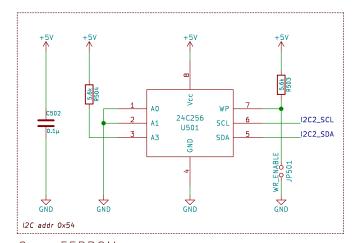
ROCKET\_READYD DEXT\_PWR\_EN\_1

DEXT\_PWR\_EN\_2
DEXT\_PWR\_EN\_3
BQ\_XALERTD DEXT\_PWR\_EN\_4

D5V\_EN D12V\_EN D19V\_EN

DBQ\_EEPROM

DROCKET\_IGNITE



Cape EEPROM

## ·ODOT

- \* Pick GPIO for rocket—ready signal.
- \* Buffer btw rocket—ready signal and BB, ign. board, etc?
- \* Umbilical connection state
- \* Ignition fuse state

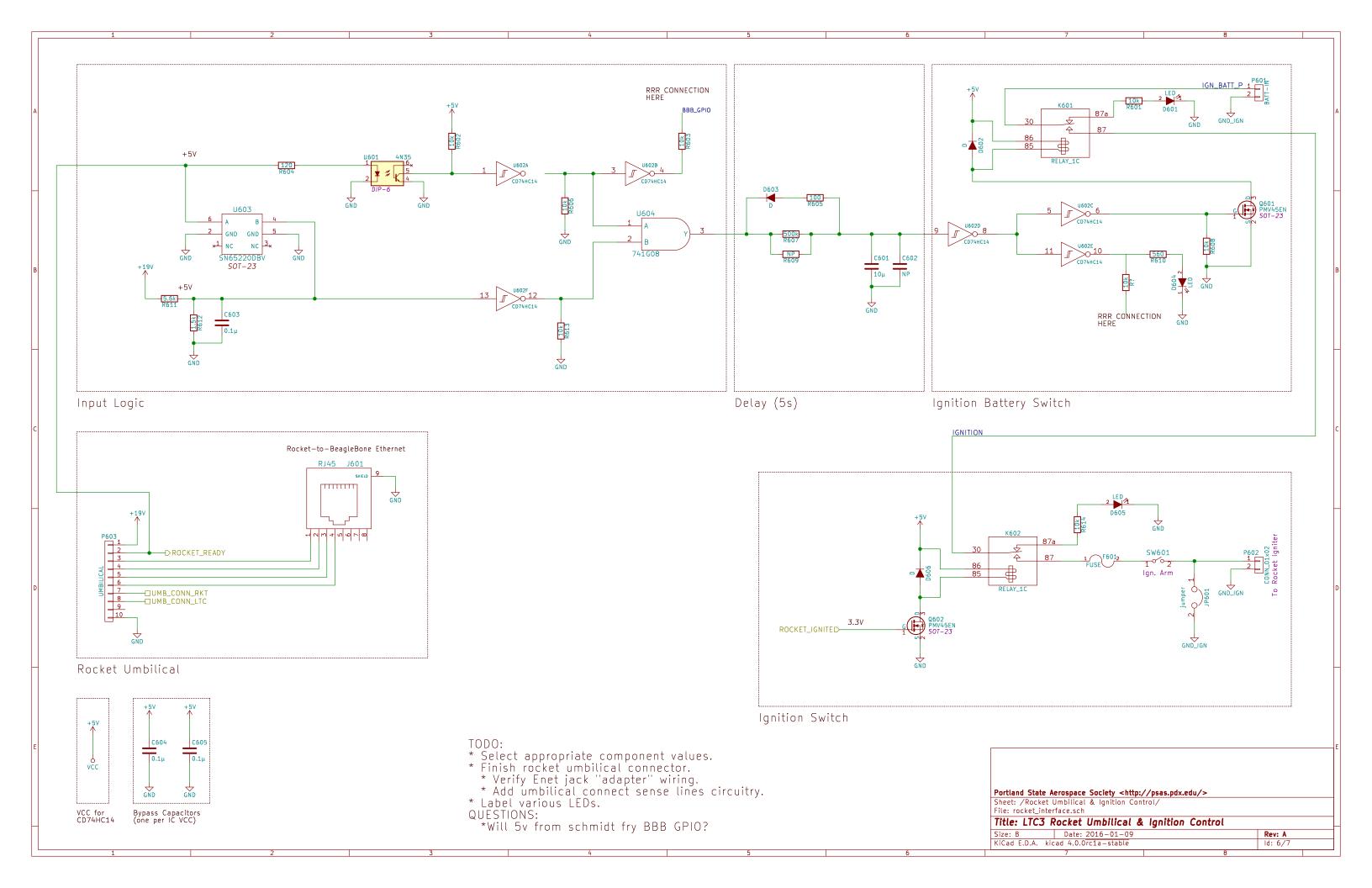
Portland State Aerospace Society <a href="http://psas.pdx.edu/">http://psas.pdx.edu/>

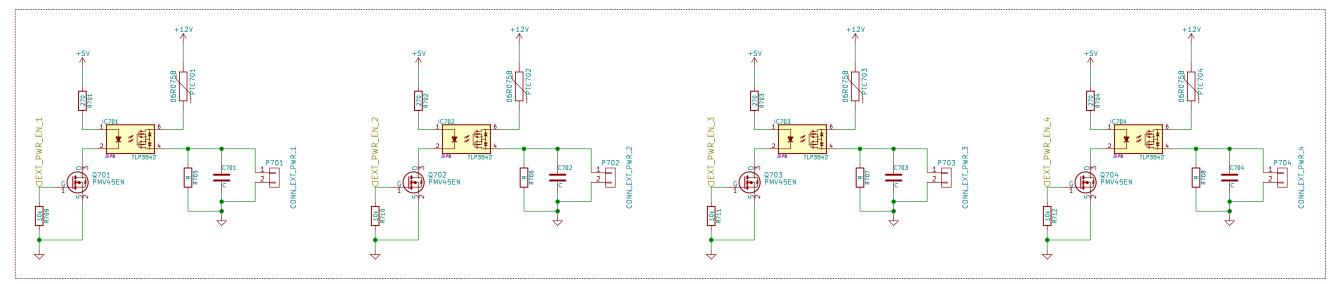
Sheet: /BeagleBone Black Cape/ File: beaglebone\_cape.sch

Title: LTC3 BeagleBone Black Cape Interface

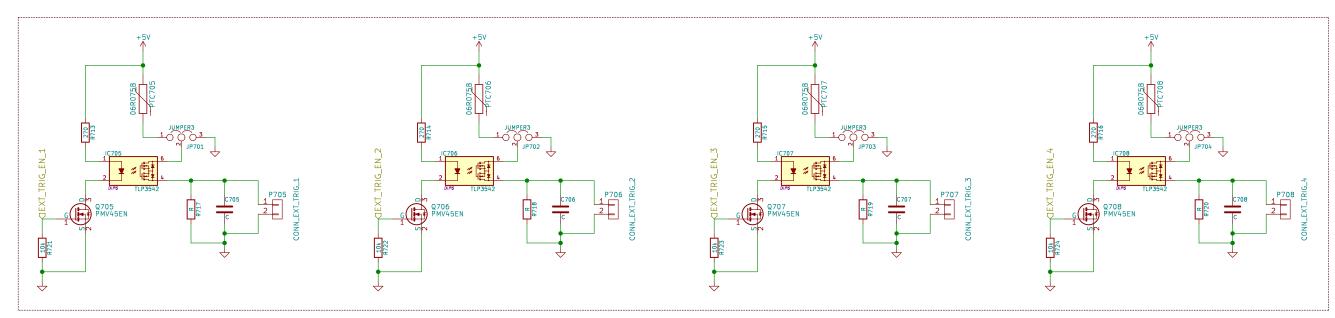
 Size: B
 Date: 2016-01-09
 Rev: A

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 Id: 5/7





External Device Power



External Device Triggers

- TODO:

  \* Determine values for bleeder resistor
  and filter capacitor on each output connector.

  \* Pick new PolyFuses, 0.5—1.0A max.

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Sheet: /External Device Power & Triggers/
File: external\_devices.sch

Title: LTC3 Fyternal Power & Trig

| Title: LTC3 | External Power & | Triggers |
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