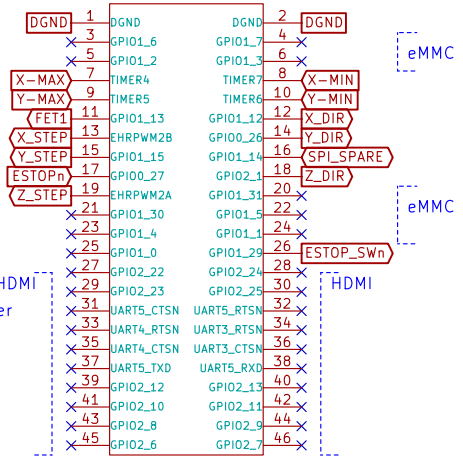
To save money on all the pin headers
when buying parts for a few boards,
you can get large breakaway headers
instead of the individual parts. You
will need a total of:

18 pins of single-row header
82 pins of dual-row header

Which you can get using
(1) Harwin M20-9993645 36-pin single-row header
(2) Harwin M20-9983645 72-pin dual-row header

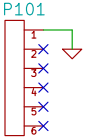
If you want to use standard pin headers instead
of the latching KK headers for the stepper and
ESTOP headers, you need another 32 pins of
single-row header

P8



Serial
Console

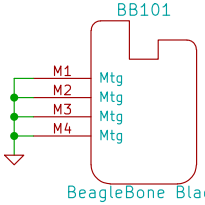
P101



BeagleBone serial
console pass-through
header

Uses Arduino 6-pin
stacking connector
for low-cost

BB101

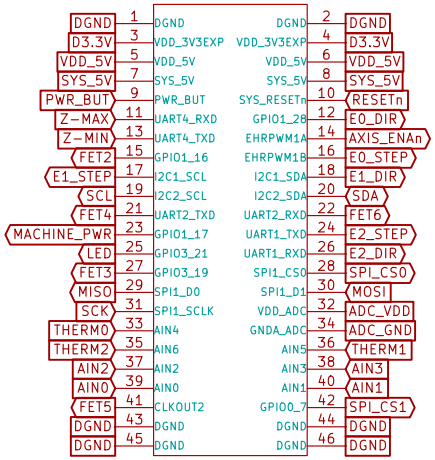


BeagleBone Black

24.576MHz Audio

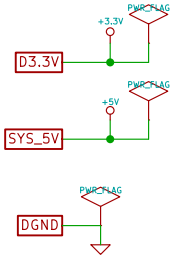
Audio
Audio

P9



SCL1 UART1_TX
SDA1 UART1_RX
Audio

BeagleBone Logic supply is always 3.3V



D3.3V: Low-current supply
from 500 mA LDO on BeagleBone

SYS_5V: Low-current supply
provided by BeagleBone PMIC
Active when BeagleBone is running

M101
PCB_GREEN_RMC

M102
LOGO_OSHW

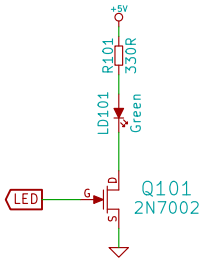
Stepper Drivers
steppers.sch

Emergency Stop
e-stop.sch

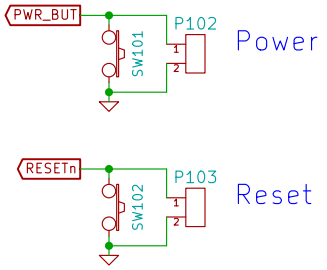
Inputs
con_inputs.sch

Mosfet Outputs
con_outputs.sch

STATUS
LED



BB ON
LED



CRAMPS by Charles Steinkuehler and Murray Lindeblom
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Derived from RAMPS-FD by Bob Cousins
Derived from RAMPS 1.4 reprap.org/wiki/RAMPS1.4

File: CRAMPS.sch		
Sheet: /		
Title: CRAMPS (Cape-RAMPS for BeagleBone)		
Size: A	Date: 7 may 2014	Rev: v2.0
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