+12V   +12V

CN1
CONN_02X08

1 2
3 4   A0
5 6
7 8
SDA 9 10 SCL
DIR 11 12 STEP
AIN 13 14 DOUT
ENABLE# 15 16 A1

GND   GND

+12V

10uF C1

GND

+5V

4,7k 1% R1

10uF C2   Therm

GND

+5V

1k R3

Red D1

LED

HS1
1
Bed_gnd   2
V-1100-SMD/B

Bed_gnd

Q1
IPD30N03S4L-09
TO252-3

Fet_gate

R4   Pwr_gnd
10k

CN2
OSTTA060161

Heated bed −   1   Bed_gnd
Heated bed +   2
Power supply + 3
Power supply − 4   Pwr_gnd
Thermistor A   5   Therm
Thermistor B   6

GND

+12V   +5V

U1
1 Vin Vout 5
GND
3 EN BP 4
2
MIC5205-5.0MB5

GND

no_pop C3   1uF 10V C4

GND

+5V Current requirements
U? PIC16F1704 4 mA
Thermistor <1 mA
Stepstick 8 mA
LED 20mA max
Max reg output 150mA

+5V   +5V

0.1uF C5

no_pop R2

GND

DOUT

U2

10k R5   10k R6

+5V

1 VDD   RA0/AN0/icspdat 13 SDA
RA1/AN1/icspclk 12 SCL
RA2/AN2 11 A0
RA4/AN3/clkout 3 Therm
RA5/clkin 2 Fet_gate
4 RA3/#mclr RC0/AN4 10
RC1/AN5 9 AIN
RC2/AN6 8 A1
RC3/AN7 7 LED
RC4 6
14 Vss RC5 5

GND

PIC16F1704

icon1
Metroid

www.wire2wire.org
Sheet: /
File: FPD_bed_EAT0010.sch
Title: FirePick Delta Bed modular tool
Size: A4   Date: Tuesday, October 06, 2015   Rev: V0.0
KiCad E.D.A. kicad (2015-03-06 BZR 5484)-product   Id: 1/1