

A

B

C

D

E

F

A

B

C

D

E

F

ECS-160-20-3X-TR
16MHZ +/- 30PPM
STABILITY AND TOLERANCE
CRYSTAL CAPACITORS:
20PF = 6.5PF +
(27PF*27PF)/(27PF+27PF)

AVR TOOLCHAIN:
Debain, Raspian, Ubuntu...
gcc-avr binutils-avr gdb-avr
avr-libc avrdude

EXAMPLES:
<https://github.com/epccs/RPULux/>

I2C

J11

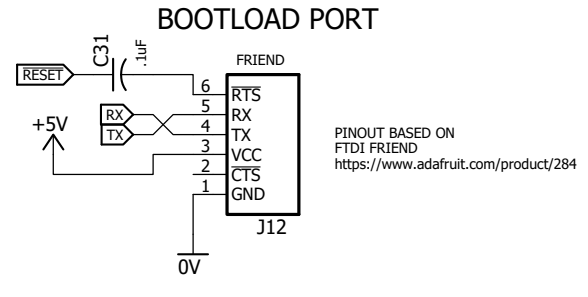
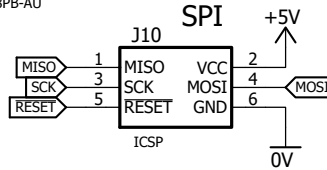
S04B

4 0V

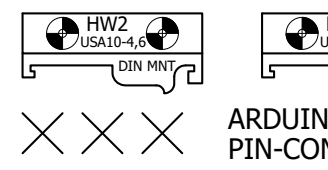
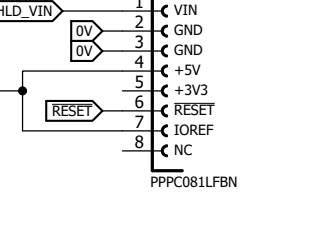
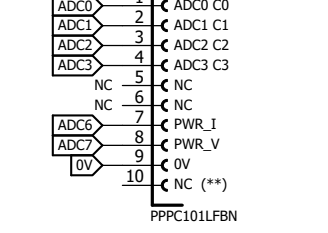
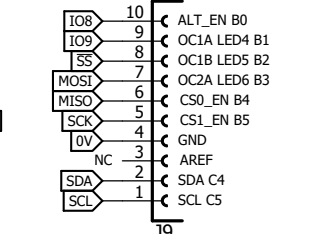
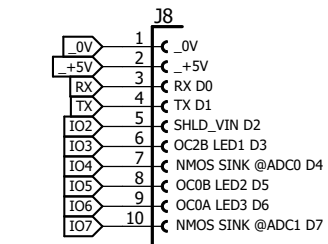
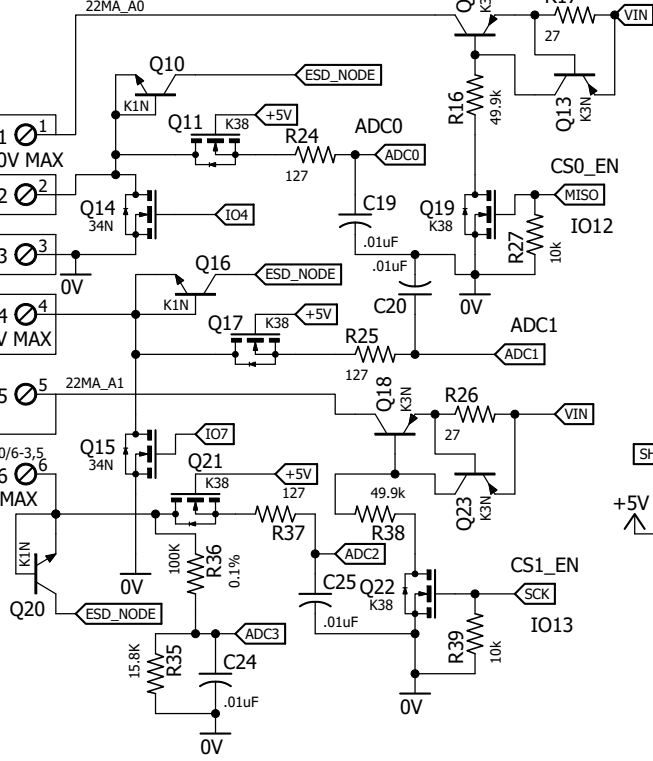
3 +5V

2 SDA

1 SCL



CURRENT SOURCE FOR LOOPS
LEVEL GUARDED ANALOG INPUT
WITH PULL DOWN



RPU BUS		RPUBUS.ORG GITHUB.COM/EPCCS		Copyright (C) 2017 Ronald Sutherland Released under the Creative Commons Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) http://creativecommons.org/licenses/by-sa/4.0/		SIZE B	
BK black BN brown RD red OG orange YE yellow		GN green BU blue VT violet GY gray WH white		Symbols = RD Names = BU Values = GY Label/info = VT Busses = Dark BU Net/Wire = GN Guide = YE		DATE: 2/23/18 NAME: RON S ADDR: 1627 W INVERNESS DR TEMPE AZ 85282 E-MAIL: ronald.sutherland@gmail.com PHONE: (480) 967-2851	
^2		AL8805 LAYOUT, LBLs		2/23/18		DESCRIPTION: PC, 6 CC LED DVR	
^1		PULL-DOWN 3..13, 100k Q1 RM A2 SINK, LED CC NOISE		1/22/18		MODEL: RPULUX	
^0		INIT		12/15/17		DRAWING: 17323	
REV		BUGZILLA ISSUE #		JDATE		1/1	
						2/27/2018 11:12 PM	

Reference Designators:
B Battery
C Capacitor
D Diode
F Fuse/Breaker
H Hardware & Outline
J Connector/Link
K Relay
L Inductor
M Motor (and Related)
P Power supply
Q Transistor
R Resistor
S Switch
T Transformer
TP Test point
U Integrated circuit/module
Y Crystal or oscillator

PINOUT BASED ON
FTDI FRIEND
<https://www.adafruit.com/product/284>