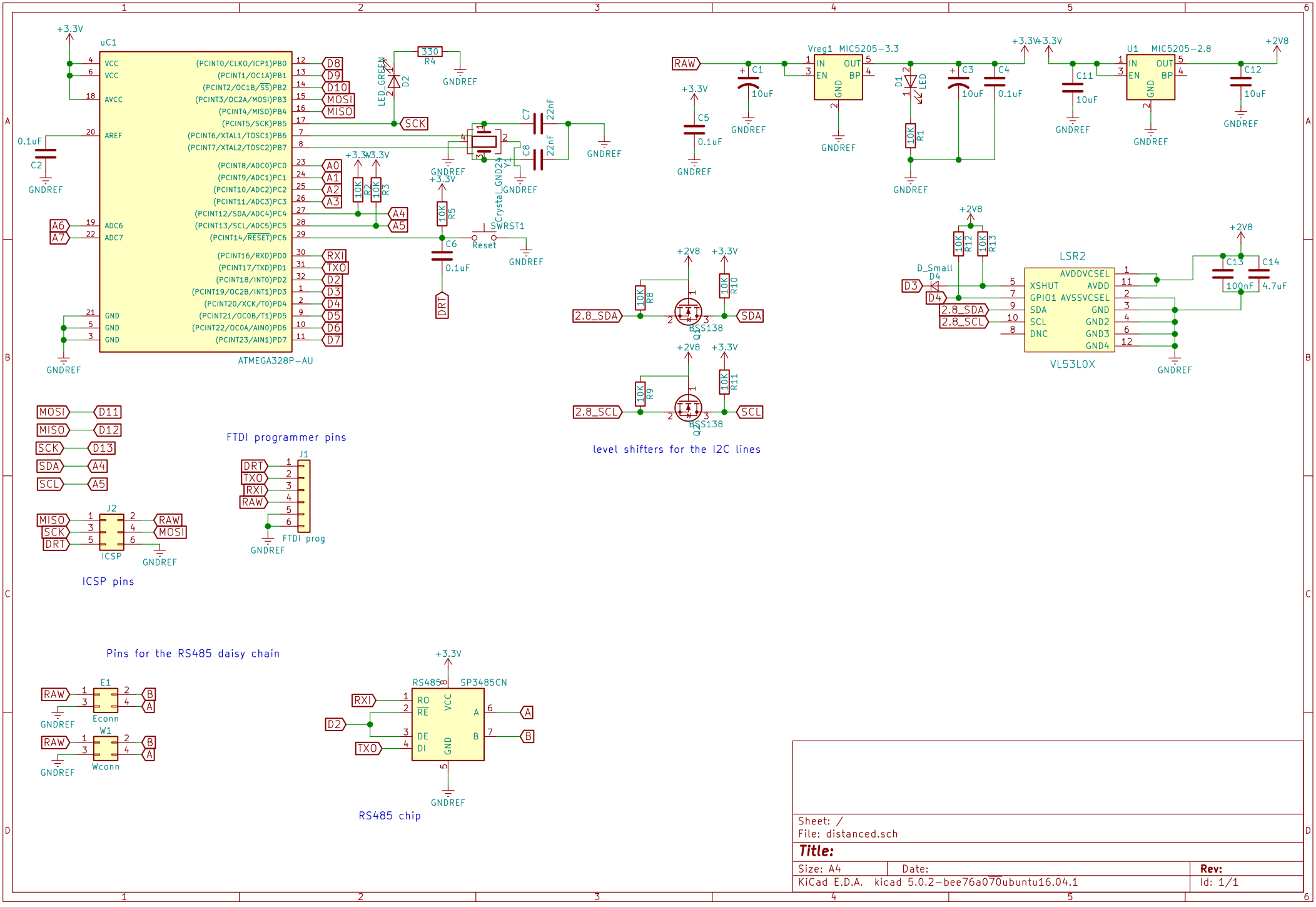
uC1
ATMEGA328P-AU
VCC
AVCC
AREF
ADC6
ADC7
GND
(PCINT0/CLKO/ICP1)PB0
(PCINT1/OC1A)PB1
(PCINT2/OC1B/SS)PB2
(PCINT3/OC2A/MOSI)PB3
(PCINT4/MISO)PB4
(PCINT5/SCK)PB5
(PCINT6/XTAL1/TOSC1)PB6
(PCINT7/XTAL2/TOSC2)PB7
(PCINT8/ADC0)PC0
(PCINT9/ADC1)PC1
(PCINT10/ADC2)PC2
(PCINT11/ADC3)PC3
(PCINT12/SDA/ADC4)PC4
(PCINT13/SCL/ADC5)PC5
(PCINT14/RESET)PC6
(PCINT16/RXD)PD0
(PCINT17/TXD)PD1
(PCINT18/INT0)PD2
(PCINT19/OC2B/INT1)PD3
(PCINT20/XCK/T0)PD4
(PCINT21/OC0B/T1)PD5
(PCINT22/OC0A/AIN0)PD6
(PCINT23/AIN1)PD7
+3.3V
GNDREF
C2
0.1uF
LED_GREEN
D2
330
R4
SCK
C7
22nF
C8
22nF
Crystal_GND24
Y1
10K
R2
R3
R5
C6
0.1uF
DRT
SWRST1
Reset
RXI
TXO
D8
D9
D10
MOSI
MISO
A0
A1
A2
A3
A4
A5
A6
A7
D2
D3
D4
D5
D6
D7
Vreg1 MIC5205-3.3
RAW
C1
10uF
C5
0.1uF
IN
EN
OUT
BP
GND
D1
LED
R1
C3
10uF
C4
0.1uF
+3.3V
U1 MIC5205-2.8
C11
10uF
C12
10uF
+2V8
LSR2
VL53L0X
AVDDVCSEL
XSHUT
AVDD
GPIO1
AVSSVCSEL
SDA
GND
SCL
GND2
DNC
GND3
GND4
D_Small
D4
R12
R13
C13
100nF
C14
4.7uF
2.8_SDA
2.8_SCL
R8
R9
R10
R11
BSS138
Q1
Q2
SDA
SCL
level shifters for the I2C lines
MOSI
MISO
SCK
SDA
SCL
D11
D12
D13
A4
A5
J2
ICSP
ICSP pins
FTDI programmer pins
J1
FTDI prog
Pins for the RS485 daisy chain
E1
Econn
W1
Wconn
B
A
RS485
SP3485CN
RO
RE
DE
DI
VCC
GND
RS485 chip
Sheet: /
File: distanced.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 5.0.2-bee76a070ubuntu16.04.1
Id: 1/1