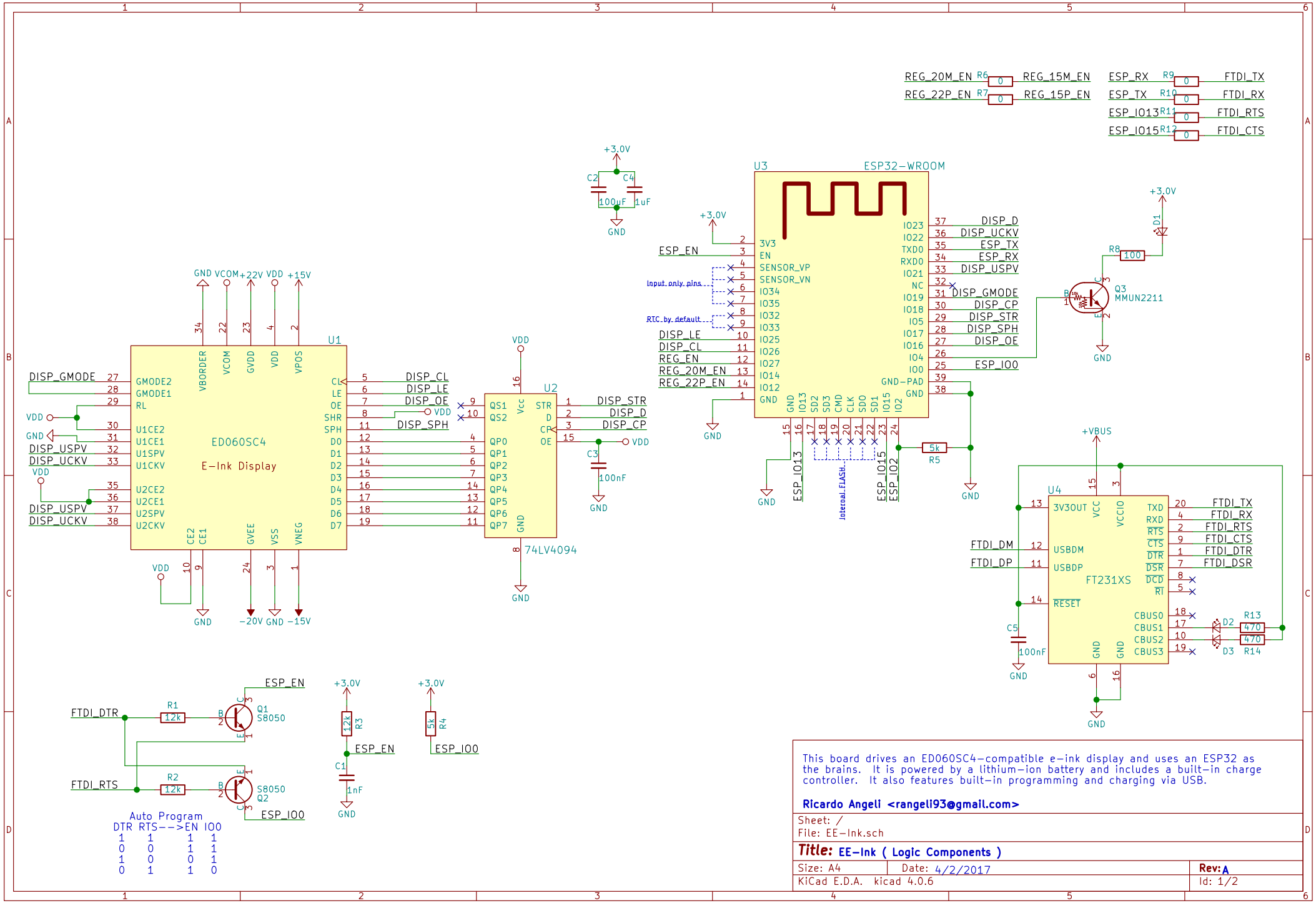
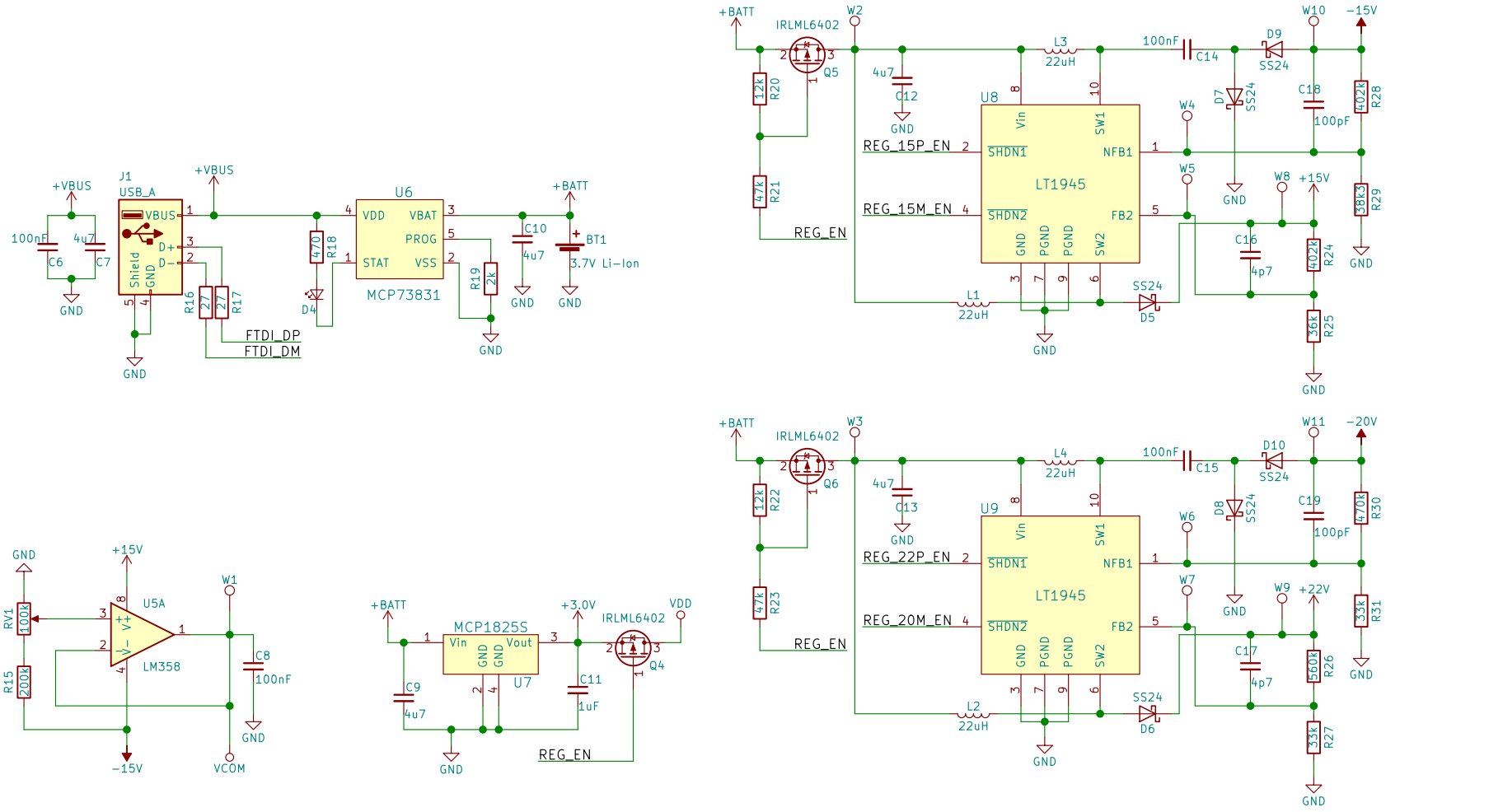

REG_20M_EN R6 0 REG_15M_EN
REG_22P_EN R7 0 REG_15P_EN
ESP_RX R9 0 FTDI_TX
ESP_TX R10 0 FTDI_RX
ESP_IO13 R11 0 FTDI_RTS
ESP_IO15 R12 0 FTDI_CTS
+3.0V
C2 100uF
C4 1uF
GND
U3 ESP32-WROOM
3V3
EN
SENSOR_VP
SENSOR_VN
IO34
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
GND
IO23
IO22
TXD0
RXD0
IO21
NC
IO19
IO18
IO5
IO17
IO16
IO4
IO0
GND-PAD
GND
Input only pins
RTC by default
ESP_EN
DISP_LE
DISP_CL
REG_EN
REG_20M_EN
REG_22P_EN
DISP_D
DISP_UCKV
ESP_TX
ESP_RX
DISP_USPV
DISP_GMODE
DISP_CP
DISP_STR
DISP_SPH
DISP_OE
ESP_IO0
ESP_IO13
ESP_IO15
ESP_IO2
Internal FLASH
5k R5
D1
R8 100
Q3 MMUN2211
U1 ED060SC4 E-Ink Display
GMODE2
GMODE1
RL
U1CE2
U1CE1
U1SPV
U1CKV
U2CE2
U2CE1
U2SPV
U2CKV
VBORDER
VCOM
GVDD
VDD
VPOS
CL
LE
OE
SHR
SPH
D0
D1
D2
D3
D4
D5
D6
D7
CE2
CE1
GVEE
VSS
VNEG
GND VCOM +22V VDD +15V
−20V GND −15V
U2 74LV4094
QS1
QS2
Vcc
QP0
QP1
QP2
QP3
QP4
QP5
QP6
QP7
STR
D
CP
OE
C3 100nF
U4 FT231XS
3V3OUT
VCC
VCCIO
USBDM
USBDP
RESET
TXD
RXD
RTS
CTS
DTR
DSR
DCD
RI
CBUS0
CBUS1
CBUS2
CBUS3
FTDI_DM
FTDI_DP
FTDI_TX
FTDI_RX
FTDI_RTS
FTDI_CTS
FTDI_DTR
FTDI_DSR
+VBUS
C5 100nF
D2
D3
R13 470
R14 470
R1 12k
R2 12k
Q1 S8050
Q2 S8050
FTDI_DTR
FTDI_RTS
ESP_EN
ESP_IO0
R3 12k
R4 5k
C1 1nF
Auto Program
DTR RTS-->EN IO0
1 1 1 1
0 0 1 1
1 0 0 1
0 1 1 0
This board drives an ED060SC4-compatible e-ink display and uses an ESP32 as the brains. It is powered by a lithium-ion battery and includes a built-in charge controller. It also features built-in programming and charging via USB.
Ricardo Angeli <rangeli93@gmail.com>
Sheet: /
File: EE-Ink.sch
Title: EE-Ink (Logic Components)
Size: A4
Date: 4/2/2017
Rev: A
KiCad E.D.A. kicad 4.0.6
Id: 1/2



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Ricardo Angeli <rangeli93@gmail.com>

Sheet: /EE-Ink-Power/
File: EE-Ink-Power.sch

Title: EE-Ink (Power Circuit)

Size: A4	Date: 4/2/2017	Rev: A
KiCad E.D.A. kicad 4.0.6		Id: 2/2