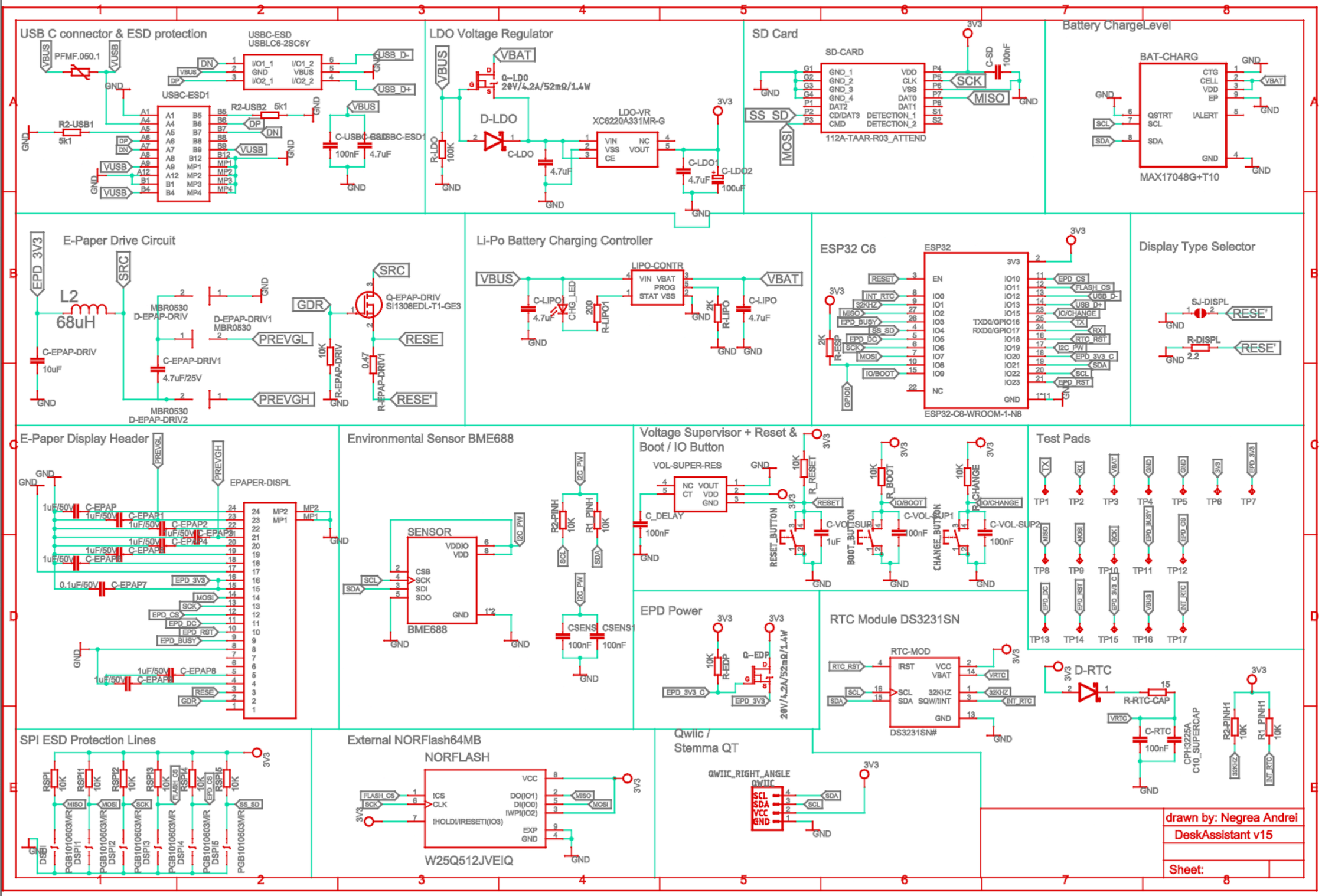
USB C connector & ESD protection
PFMF.050.1
USBC-ESD
USBLC6-2SC6Y
USBC-ESD1
R2-USB1
5k1
R2-USB2
5k1
C-USBC-ESD1
100nF
4.7uF
USB_D-
USB_D+
LDO Voltage Regulator
VBAT
Q-LDO
20V/4.2A/52mΩ/1.4W
D-LDO
C-LDO
R-LDO
100K
LDO-VR
XC6220A331MR-G
C-LDO1
4.7uF
C-LDO2
100uF
3V3
SD Card
SD-CARD
112A-TAAR-R03_ATTEND
SS_SD
MOSI
SCK
MISO
C-SD
100nF
Battery ChargeLevel
BAT-CHARG
MAX17048G+T10
SCL
SDA
VBAT
E-Paper Drive Circuit
EPD_3V3
SRC
L2
68uH
C-EPAP-DRIV
10uF
MBR0530
D-EPAP-DRIV
D-EPAP-DRIV1
MBR0530
C-EPAP-DRIV1
4.7uF/25V
MBR0530
D-EPAP-DRIV2
GDR
PREVGL
PREVGH
Q-EPAP-DRIV
SI1308EDL-T1-GE3
RESE
RESE'
R-EPAP-DRIV
10K
0.47
R-EPAP-DRIV1
Li-Po Battery Charging Controller
VBUS
LIPO-CONTR
VIN VBAT
PROG
STAT VSS
C-LIPO1
4.7uF
CHG_LED
200
R-LIPO1
2K
R-LIPO
C-LIPO
4.7uF
ESP32 C6
ESP32
ESP32-C6-WROOM-1-N8
RESET
INT_RTC
32KHZ
MISO
EPD_BUSY
SS_SD
EPD_DC
SCK
MOSI
IO/BOOT
R-EDP
2K
GPIO6
EPD_CS
FLASH_CS
USB_D-
USB_D+
IO/CHANGE
TX
RX
RTC_RST
I2C_PW
EPD_3V3_C
SDA
SCL
EPD_RST
Display Type Selector
SJ-DISPL
RESE'
R-DISPL
2.2
E-Paper Display Header
EPAPER-DISPL
C-EPAP
C-EPAP1
C-EPAP2
C-EPAP3
C-EPAP4
C-EPAP5
C-EPAP6
C-EPAP7
C-EPAP8
1uF/50V
0.1uF/50V
Environmental Sensor BME688
SENSOR
BME688
CSB
SCK
SDI
SDO
VDDIO
VDD
GND
I2C_PW
R2-PINH
R1_PINH
10K
CSENS
CSENS1
100nF
Voltage Supervisor + Reset & Boot / IO Button
VOL-SUPER-RES
C_DELAY
100nF
R_RESET
R_BOOT
R_CHANGE
RESET_BUTTON
BOOT_BUTTON
CHANGE_BUTTON
C-VOL-SUP
C-VOL-SUP1
C-VOL-SUP2
1uF
Test Pads
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP17
EPD Power
R-EDP
Q-EDP
20V/4.2A/52mΩ/1.4W
RTC Module DS3231SN
RTC-MOD
DS3231SN#
IRST
VCC
VBAT
SCL
SDA
32KHZ
SQW/INT
GND
VRTC
D-RTC
R-RTC-CAP
C-RTC
100nF
CPH3225A
C10_SUPERCAP
R2-PINH1
R1_PINH1
SPI ESD Protection Lines
RSPI1
RSPI2
RSPI3
RSPI4
RSPI5
PGB1010603MR
DSPI1
DSPI2
DSPI3
DSPI4
DSPI5
External NORFlash64MB
NORFLASH
W25Q512JVEIQ
ICS
CLK
!HOLD/!RESET(IO3)
VCC
DO(IO1)
DI(IO0)
!WP!(IO2)
EXP
GND
Qwiic /
Stemma QT
QWIIC_RIGHT_ANGLE
QWIIC
drawn by: Negrea Andrei
DeskAssistant v15
Sheet: