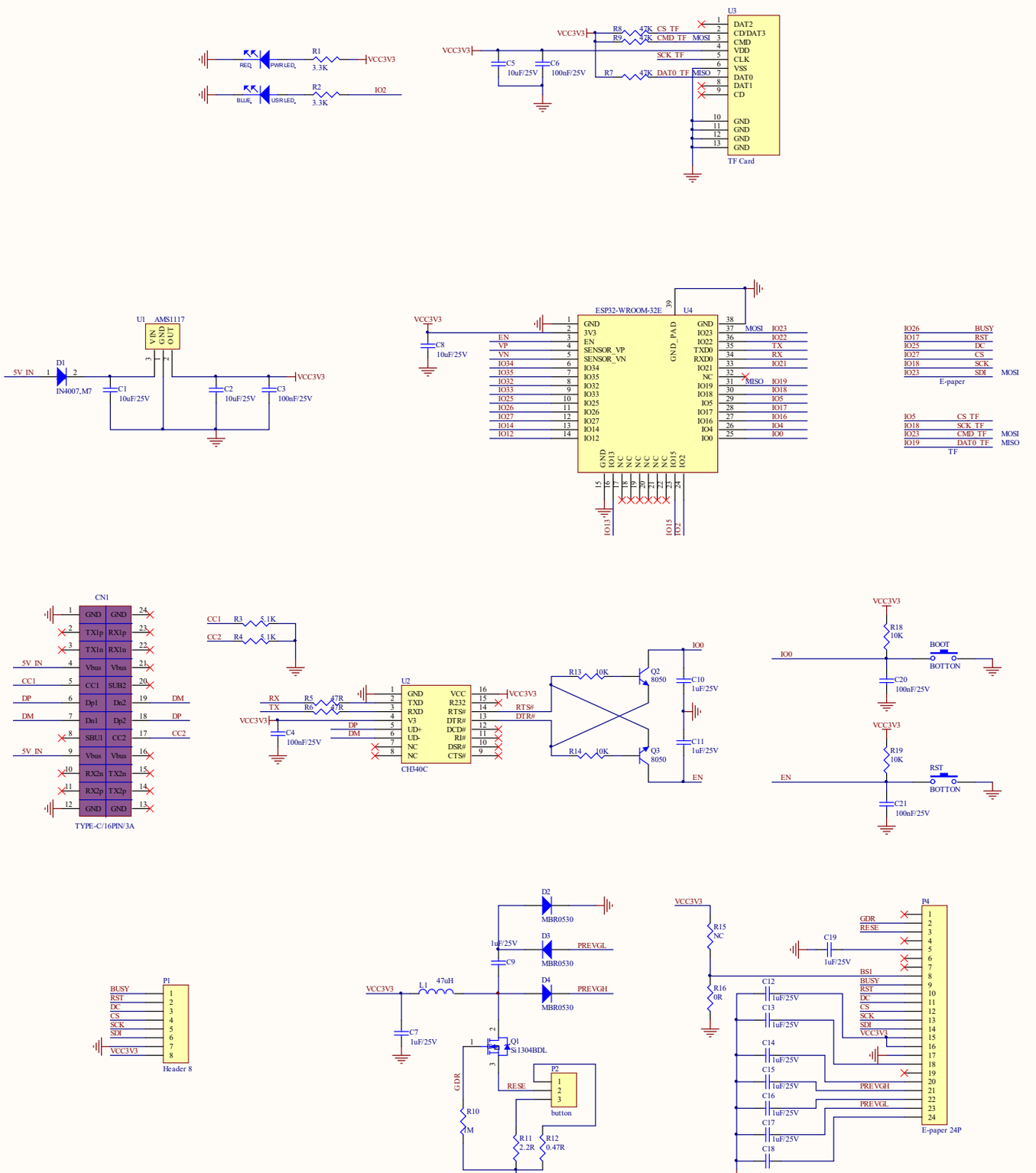
REQ
PWR LED
R1
3.3K
VCC3V3
BLUE
USR LED
R2
3.3K
IO2
U3
DAT2
CD/DAT3
CMD
VDD
CLK
VSS
DAT0
DAT1
CD
GND
GND
GND
GND
TF Card
VCC3V3
R8 47K CS_TF
R9 47K CMD_TF MOSI
SCK_TF
R7 47K DAT0_TF MISO
C5 10uF/25V
C6 100nF/25V
U1 AMS1117
VIN
GND
OUT
5V_IN
D1
IN4007,M7
C1 10uF/25V
C2 10uF/25V
C3 100nF/25V
VCC3V3
ESP32-WROOM-32E
U4
GND_PAD
GND
3V3
EN
SENSOR_VP
SENSOR_VN
IO34
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
GND
IO13
NC
NC
NC
NC
NC
NC
IO15
IO2
IO0
IO4
IO16
IO17
IO5
IO18
IO19
RXD0
TXD0
IO22
IO23
MOSI
MISO
C8 10uF/25V
IO26 BUSY
IO17 RST
IO25 DC
IO27 CS
IO18 SCK
IO23 SDI MOSI
E-paper
IO5 CS_TF
IO18 SCK_TF
IO23 CMD_TF MOSI
IO19 DAT0_TF MISO
TF
CN1
TYPE-C/16PIN/3A
GND
TX1p
TX1n
Vbus
CC1
Dp1
Dn1
SBU1
RX2n
RX2p
RX1p
RX1n
SUB2
Dn2
Dp2
CC2
TX2n
TX2p
5V_IN
DP
DM
CC1 R3 5.1K
CC2 R4 5.1K
U2
CH340C
GND
TXD
RXD
V3
UD+
UD-
NC
VCC
R232
RTS#
DTR#
DCD#
RI#
DSR#
CTS#
RX R5 47R
TX R6 47R
C4 100nF/25V
RTS#
DTR#
R13 10K
R14 10K
Q2 8050
Q3 8050
C10 1uF/25V
C11 1uF/25V
IO0
EN
R18 10K
BOOT
BOTTON
C20 100nF/25V
R19 10K
RST
C21 100nF/25V
P1
Header 8
BUSY
RST
DC
CS
SCK
SDI
D2 MBR0530
D3 MBR0530
D4 MBR0530
PREVGL
PREVGH
C9 1uF/25V
L1 47uH
C7 1uF/25V
Q1 Si1304BDL
GDR
RESE
P2
button
R10 1M
R11 2.2R
R12 0.47R
R15 NC
R16 0R
C19 1uF/25V
C12 1uF/25V
C13 1uF/25V
C14 1uF/25V
C15 1uF/25V
C16 1uF/25V
C17 1uF/25V
C18
P4
E-paper 24P
Title
Label 2.9 inch Rev 2.0
Size
A4
Number
Revision
Date: 2026-09-01
Sheet of
File: F:\...\Label 2_9Inch 2026-09-01.SchDoc