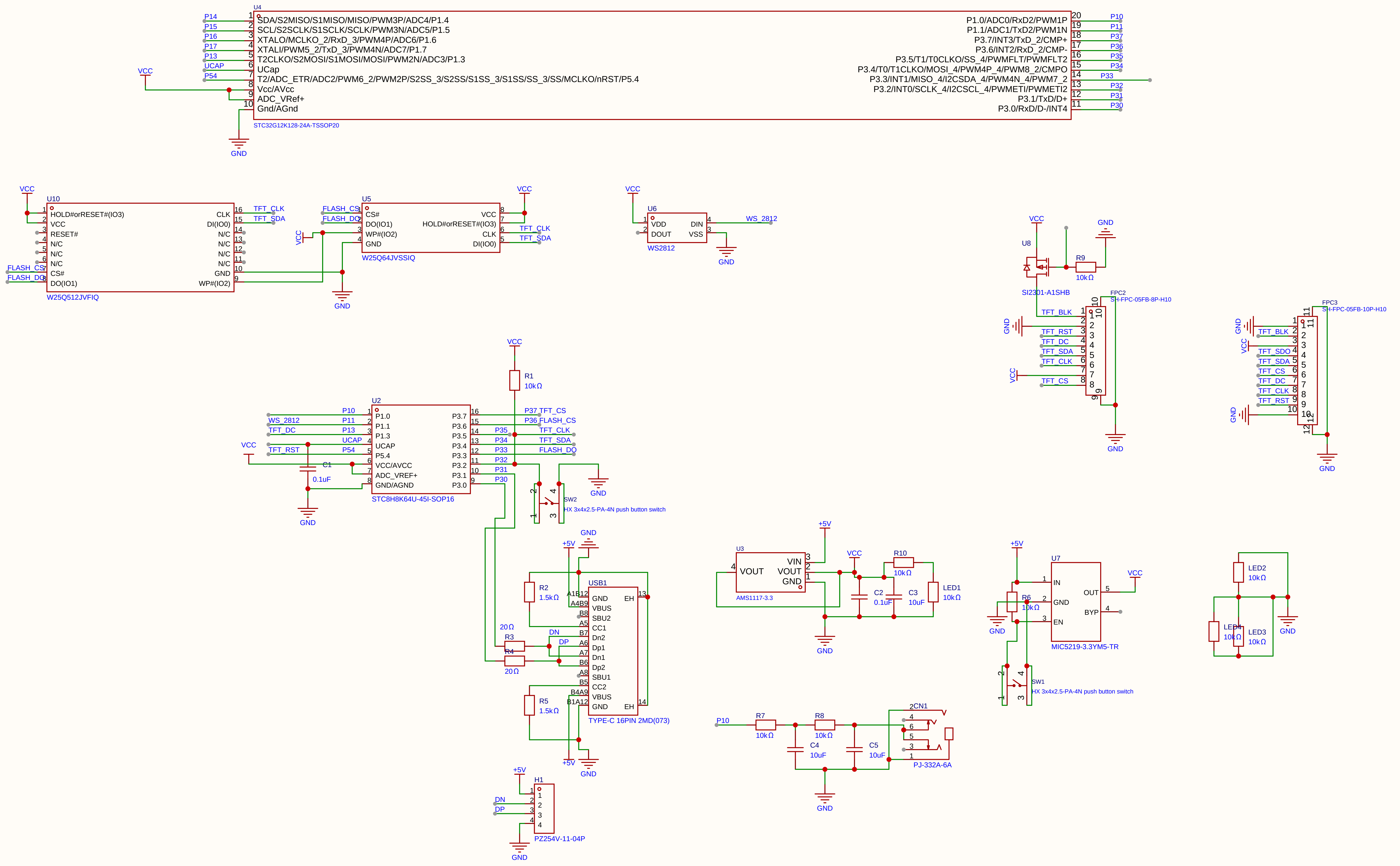
U4
P14
P15
P16
P17
P13
UCAP
P54
VCC
SDA/S2MISO/S1MISO/MISO/PWM3P/ADC4/P1.4
SCL/S2SCLK/S1SCLK/SCLK/PWM3N/ADC5/P1.5
XTALO/MCLKO_2/RxD_3/PWM4P/ADC6/P1.6
XTALI/PWM5_2/TxD_3/PWM4N/ADC7/P1.7
T2CLKO/S2MOSI/S1MOSI/MOSI/PWM2N/ADC3/P1.3
UCap
T2/ADC_ETR/ADC2/PWM6_2/PWM2P/S2SS_3/S2SS/S1SS_3/S1SS/SS_3/SS/MCLKO/nRST/P5.4
Vcc/AVcc
ADC_VRef+
Gnd/AGnd
P1.0/ADC0/RxD2/PWM1P
P1.1/ADC1/TxD2/PWM1N
P3.7/INT3/TxD_2/CMP+
P3.6/INT2/RxD_2/CMP-
P3.5/T1/T0CLKO/SS_4/PWMFLT/PWMFLT2
P3.4/T0/T1CLKO/MOSI_4/PWM4P_4/PWM8_2/CMPO
P3.3/INT1/MISO_4/I2CSDA_4/PWM4N_4/PWM7_2
P3.2/INT0/SCLK_4/I2CSCL_4/PWMETI/PWMETI2
P3.1/TxD/D+
P3.0/RxD/D-/INT4
P10
P11
P37
P36
P35
P34
P33
P32
P31
P30
STC32G12K128-24A-TSSOP20
GND
VCC
U10
HOLD#orRESET#(IO3)
VCC
RESET#
N/C
N/C
N/C
CS#
DO(IO1)
CLK
DI(IO0)
N/C
N/C
N/C
N/C
GND
WP#(IO2)
TFT_CLK
TFT_SDA
FLASH_CS
FLASH_DO
W25Q512JVFIQ
VCC
GND
U5
FLASH_CS
FLASH_DO
CS#
DO(IO1)
WP#(IO2)
GND
VCC
HOLD#orRESET#(IO3)
CLK
DI(IO0)
TFT_CLK
TFT_SDA
VCC
W25Q64JVSSIQ
VCC
U6
VDD
DOUT
DIN
VSS
WS_2812
WS2812
GND
VCC
U8
R9
10kΩ
GND
SI2301-A1SHB
FPC2
SH-FPC-05FB-8P-H10
TFT_BLK
GND
TFT_RST
TFT_DC
TFT_SDA
TFT_CLK
VCC
TFT_CS
GND
FPC3
SH-FPC-05FB-10P-H10
GND
TFT_BLK
VCC
TFT_SDO
TFT_SDA
TFT_CS
TFT_DC
TFT_CLK
TFT_RST
GND
GND
VCC
R1
10kΩ
U2
P10
WS_2812
P11
TFT_DC
P13
VCC
UCAP
TFT_RST
P54
C1
0.1uF
GND
P1.0
P1.1
P1.3
UCAP
P5.4
VCC/AVCC
ADC_VREF+
GND/AGND
P3.7
P3.6
P3.5
P3.4
P3.3
P3.2
P3.1
P3.0
P37 TFT_CS
P36 FLASH_CS
P35
TFT_CLK
P34
TFT_SDA
P33
FLASH_DO
P32
P31
P30
STC8H8K64U-45I-SOP16
GND
SW2
HX 3x4x2.5-PA-4N push button switch
+5V
GND
USB1
R2
1.5kΩ
A1B12
A4B9
B8
A5
B7
A6
A7
B6
A8
B5
B4A9
B1A12
GND
VBUS
SBU2
CC1
Dn2
Dp1
Dn1
Dp2
SBU1
CC2
VBUS
GND
EH
EH
20Ω
R3
DN
DP
R4
20Ω
R5
1.5kΩ
TYPE-C 16PIN 2MD(073)
+5V
GND
+5V
H1
DN
DP
PZ254V-11-04P
GND
+5V
U3
VIN
VOUT
VOUT
GND
AMS1117-3.3
VCC
R10
10kΩ
C2
0.1uF
C3
10uF
LED1
10kΩ
GND
+5V
U7
IN
GND
EN
OUT
BYP
VCC
R6
10kΩ
GND
MIC5219-3.3YM5-TR
SW1
HX 3x4x2.5-PA-4N push button switch
LED2
10kΩ
LED4
10kΩ
LED3
10kΩ
GND
P10
R7
10kΩ
R8
10kΩ
C4
10uF
C5
10uF
CN1
PJ-332A-6A
GND

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