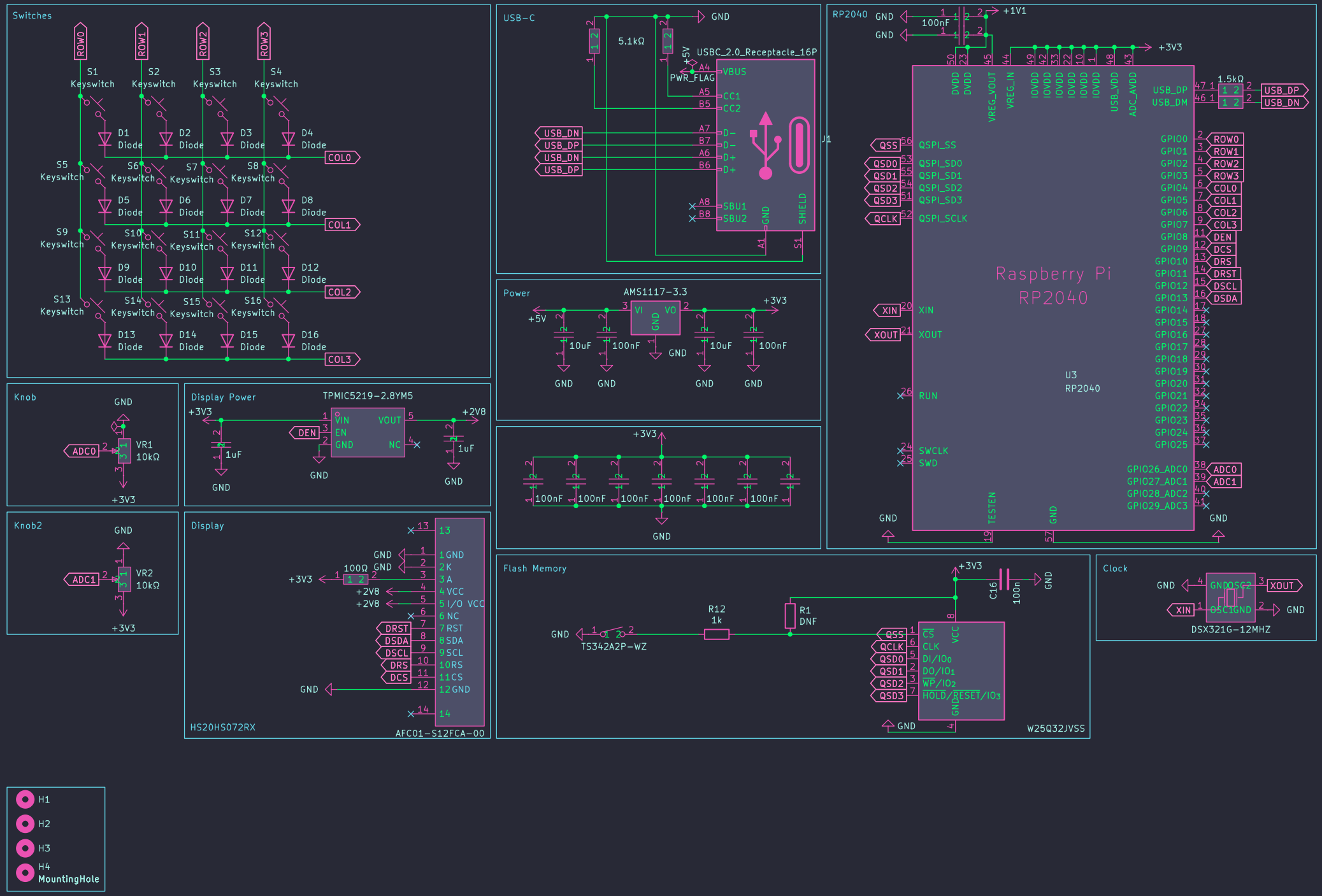
Switches
ROW0
ROW1
ROW2
ROW3
S1 Keyswitch
S2 Keyswitch
S3 Keyswitch
S4 Keyswitch
S5 Keyswitch
S6 Keyswitch
S7 Keyswitch
S8 Keyswitch
S9 Keyswitch
S10 Keyswitch
S11 Keyswitch
S12 Keyswitch
S13 Keyswitch
S14 Keyswitch
S15 Keyswitch
S16 Keyswitch
D1 Diode
D2 Diode
D3 Diode
D4 Diode
D5 Diode
D6 Diode
D7 Diode
D8 Diode
D9 Diode
D10 Diode
D11 Diode
D12 Diode
D13 Diode
D14 Diode
D15 Diode
D16 Diode
COL0
COL1
COL2
COL3
USB-C
GND
5.1kΩ
+5V
USBC_2.0_Receptacle_16P
PWR_FLAG
VBUS
CC1
CC2
USB_DN
USB_DP
USB_DN
USB_DP
D−
D−
D+
D+
SBU1
SBU2
GND
SHIELD
A1
S1
U1
Power
AMS1117-3.3
+5V
VI
VO
GND
+3V3
10uF
100nF
GND
GND
GND
GND
GND
GND
+3V3
100nF
100nF
100nF
100nF
100nF
100nF
GND
RP2040
GND
GND
100nF
+1V1
+3V3
DVDD
DVDD
VREG_VOUT
VREG_IN
IOVDD
USB_VDD
ADC_AVDD
USB_DP
USB_DM
1.5kΩ
USB_DP
USB_DN
QSS
QSD0
QSD1
QSD2
QSD3
QCLK
QSPI_SS
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
QSPI_SCLK
XIN
XOUT
RUN
SWCLK
SWD
TESTEN
GND
GND
Raspberry Pi
RP2040
U3
RP2040
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
GPIO22
GPIO23
GPIO24
GPIO25
GPIO26_ADC0
GPIO27_ADC1
GPIO28_ADC2
GPIO29_ADC3
ROW0
ROW1
ROW2
ROW3
COL0
COL1
COL2
COL3
DEN
DCS
DRS
DRST
DSCL
DSDA
ADC0
ADC1
Knob
GND
ADC0
VR1
10kΩ
+3V3
Display Power
TPMIC5219-2.8YM5
+3V3
VIN
VOUT
EN
GND
NC
DEN
+2V8
1uF
1uF
GND
GND
GND
Knob2
GND
ADC1
VR2
10kΩ
+3V3
Display
GND
GND
100Ω
+3V3
+2V8
+2V8
DRST
DSDA
DSCL
DRS
DCS
GND
1 GND
2 K
3 A
4 VCC
5 I/O VCC
6 NC
7 RST
8 SDA
9 SCL
10 RS
11 CS
12 GND
13
14
HS20HS072RX
AFC01-S12FCA-00
Flash Memory
+3V3
C16
100n
GND
GND
TS342A2P-WZ
R12
1k
R1
DNF
QSS
QCLK
QSD0
QSD1
QSD2
QSD3
CS
CLK
DI/IO0
DO/IO1
WP/IO2
HOLD/RESET/IO3
VCC
GND
GND
W25Q32JVSS
Clock
GND
GNDOSC2
XOUT
XIN
OSCIGND
GND
DSX321G-12MHZ
H1
H2
H3
H4
MountingHole