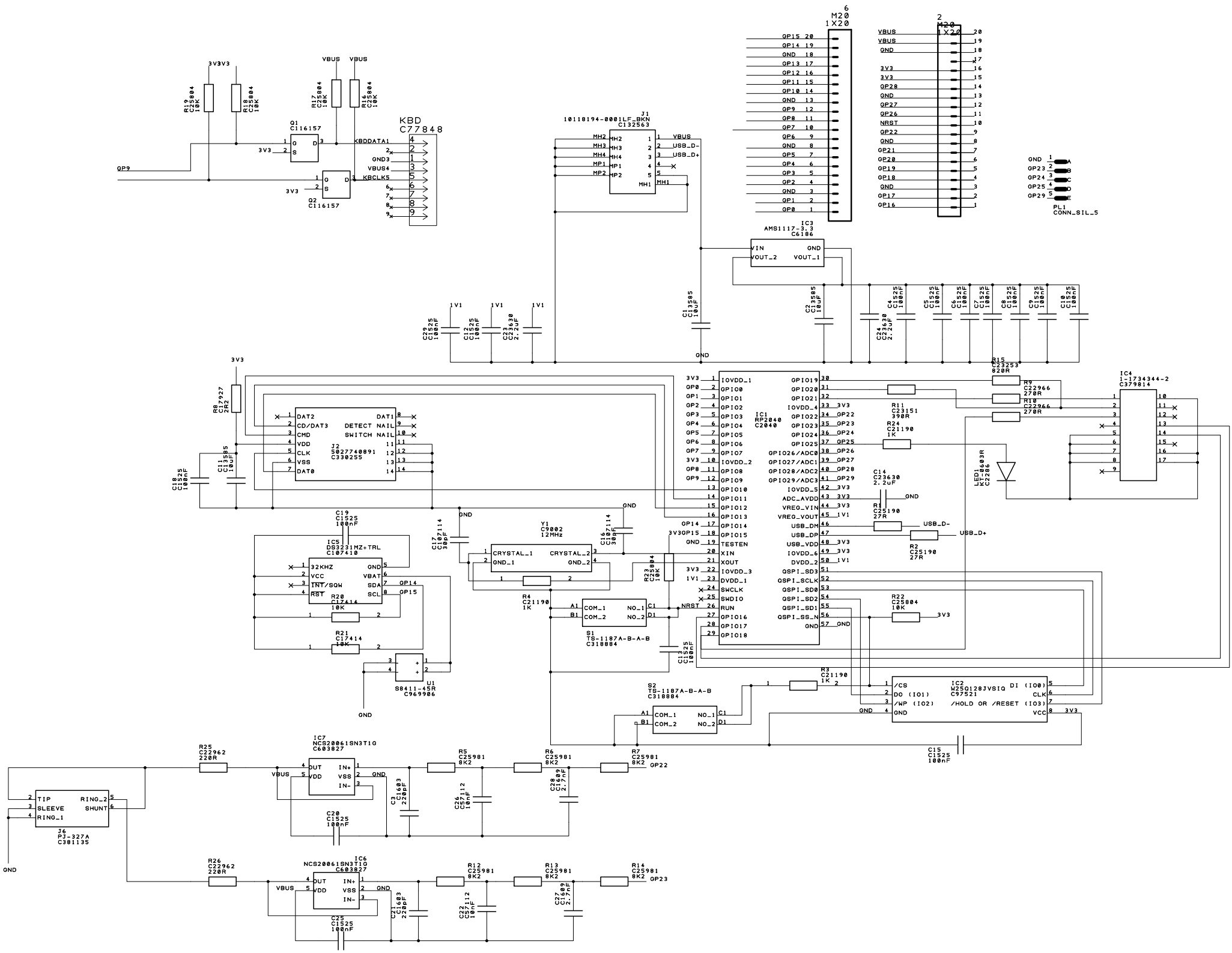
3V3V3
VBUS
VBUS
R19 C25804 10K
R18 C25804 10K
R17 C25804 10K
R16 C25804 10K
Q1 C116157
Q2 C116157
KBD C77848
KBDDATA1
KBCLK5
GND3
VBUS4
QP9
J1 10118194-0001LF_BKN C132563
MH2
MH3
MH4
MP1
MP2
VBUS
USB_D-
USB_D+
6 M20 1X20
2 M20 1X20
QP15 QP14 GND QP13 QP12 QP11 QP10 GND QP9 QP8 QP7 QP6 GND QP5 QP4 QP3 QP2 GND QP1 QP0
VBUS VBUS GND 3V3 3V3 GP28 GND GP27 GP26 NRST GP22 GND GP21 GP20 GP19 GP18 GND GP17 GP16
PL1 CONN_SIL_5
GND GP23 GP24 GP25 GP29
IC3 AMS1117-3.3 C6186
VIN VOUT_2 GND VOUT_1
C1 C13595 10uF
C2 C13585 10uF
C4 C1525 100nF
C5 C1525 100nF
C6 C1525 100nF
C7 C1525 100nF
C8 C1525 100nF
C9 C1525 100nF
C10 C1525 100nF
C12 C1525 100nF
C13 C23630 2.2uF
C24 C23630 2.2uF
C29 C1525 100nF
1V1
GND
R15 C23253 820R
R9 C22966 270R
R10 C22966 270R
R11 C23151 390R
R24 C21190 1K
LED1 KT-0603R C2286
IC4 1-1734344-2 C379814
R8 C17927 2K2
C11 C13585 10uF
C18 C1525 100nF
3V3
DAT2 DAT1 CD/DAT3 DETECT NAIL CMD SWITCH NAIL VDD CLK VSS DAT0
J2 5027740891 C330255
IC1 RP2040 C2040
IOVDD_1 GP0 GP1 GP2 GP3 GP4 GP5 GP6 GP7 3V3 GP8 GP9 GP10 GP11 GP12 GP13 GP14 GP15 GND TESTEN XIN XOUT IOVDD_3 DVDD_1 SWCLK SWDIO RUN GP16 GP17 GP18
GPIO19 GPIO20 GPIO21 IOVDD_4 GPIO22 GPIO23 GPIO24 GPIO25 GPIO26/ADC0 GPIO27/ADC1 GPIO28/ADC2 GPIO29/ADC3 IOVDD_5 ADC_AVDD VREG_IN VREG_VOUT USB_DM USB_DP USB_VDD IOVDD_6 DVDD_2 QSPI_SD3 QSPI_SCLK QSPI_SD0 QSPI_SD2 QSPI_SD1 QSPI_SS_N GND
C14 C23630 2.2uF
R1 C25190 27R
R2 C25190 27R
C19 C1525 100nF
IC5 DS3231MZ+TRL C107410
32KHZ VCC INT/SQW RST GND VBAT SDA SCL
R20 C17414 10K
R21 C17414 10K
GP14 GP15
U1 S8411-45R C969986
C17 C107114 30pF
C16 C107114 30pF
Y1 C9002 12MHz
CRYSTAL_1 CRYSTAL_2 GND_1 GND_2
R23 C25804 10K
R4 C21190 1K
S1 TS-1187A-B-A-B C318884
COM_1 COM_2 NO_1 NO_2
C15 C1525 100nF
R3 C21190 1K
S2 TS-1187A-B-A-B C318884
IC2 W25Q128JVSIQ C97521
/CS DO (IO1) /WP (IO2) GND DI (IO0) CLK /HOLD OR /RESET (IO3) VCC
R22 C25804 10K
R25 C22962 220R
R26 C22962 220R
IC7 NCS20061SN3T1G C603827
IC6 NCS20061SN3T1G C603827
OUT VDD IN+ VSS IN-
R5 C25981 8K2
R6 C25981 8K2
R7 C25981 8K2
R12 C25981 8K2
R13 C25981 8K2
R14 C25981 8K2
GP22 GP23
C3 C1603 220pF
C21 C1603 220pF
C28 C1609 2.7nF
C27 C1609 2.7nF
C29 C57112 10nF
C22 C57112 10nF
C20 C1525 100nF
C25 C1525 100nF
J6 PJ-327A C381135
TIP SLEEVE RING_1 RING_2 SHUNT
GND