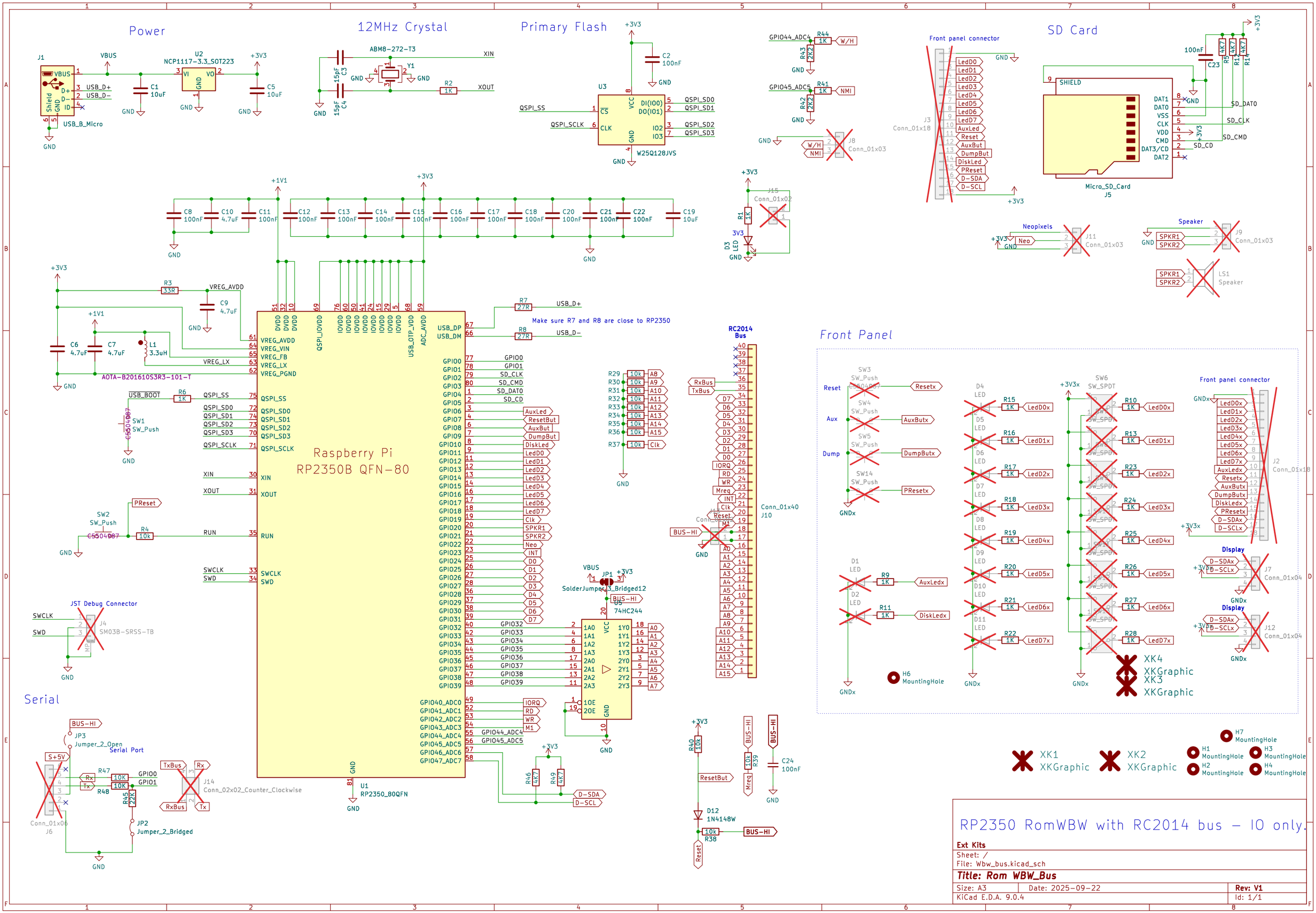
Power
J1
USB_B_Micro
VBUS
U2
NCP1117-3.3_SOT223
+3V3
C1 10uF
C5 10uF
12MHz Crystal
ABM8-272-T3
Y1
XIN
XOUT
R2 1K
C3 15pF
C4 15pF
Primary Flash
U3
W25Q128JVS
QSPI_SS
QSPI_SCLK
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
C2 100nF
GPIO44_ADC4
GPIO45_ADC5
R44 1K
R41 1K
R43 2K2
R42 2K2
W/H
NMI
J8 Conn_01x03
Front panel connector
J3 Conn_01x18
LedD0
LedD1
LedD2
LedD3
LedD4
LedD5
LedD6
LedD7
AuxLed
Reset
AuxBut
DumpBut
DiskLed
PReset
D-SDA
D-SCL
SD Card
SHIELD
Micro_SD_Card
J5
DAT1
DAT0
VSS
CLK
VDD
CMD
DAT3/CD
DAT2
SD_DAT0
SD_CLK
SD_CMD
SD_CD
C23 100nF
R9 4K7
R11 4K7
R14 4K7
J15 Conn_01x02
R1 1K
D3 LED
Neopixels
Neo
J11 Conn_01x03
Speaker
SPKR1
SPKR2
J9 Conn_01x03
LS1 Speaker
C8 100nF
C10 4.7uF
C11 100nF
C12 100nF
C13 100nF
C14 100nF
C15 100nF
C16 100nF
C17 100nF
C18 100nF
C20 100nF
C21 100nF
C22 100nF
C19 10uF
+1V1
R3 33R
VREG_AVDD
C9 4.7uF
C6 4.7uF
C7 4.7uF
L1 3.3uH
VREG_LX
AOTA-B201610S3R3-101-T
USB_BOOT
R6 1K
SW1 SW_Push
C5304987
R7 27R
R8 27R
USB_D+
USB_D-
Make sure R7 and R8 are close to RP2350
Raspberry Pi
RP2350B QFN-80
U1
RP2350_80QFN
PReset
SW2 SW_Push
R4 10k
RUN
SWCLK
SWD
JST Debug Connector
J4 SM03B-SRSS-TB
Serial
BUS-HI
JP3 Jumper_2_Open
Serial Port
S+5V
R47 10K
R48 10K
R45 22K
GPIO0
GPIO1
TxBus
RxBus
Rx
Tx
J14 Conn_02x02_Counter_Clockwise
Conn_01x06 J6
JP2 Jumper_2_Bridged
RC2014 Bus
Conn_01x40 J10
R29 10k A8
R30 10k A9
R31 10k A10
R32 10k A11
R33 10k A12
R34 10k A13
R35 10k A14
R36 10k A15
R37 10k Clk
VBUS
JP1 SolderJumper_3_Bridged12
U6 74HC244
R46 4K7
R49 4K7
D-SDA
D-SCL
Front Panel
SW3 SW_Push
SW4 SW_Push
SW5 SW_Push
SW14 SW_Push
Resetx
AuxButx
DumpButx
PResetx
GNDx
D1 LED
D2 LED
D4 LED
D5 LED
D6 LED
D7 LED
D8 LED
D9 LED
D10 LED
D11 LED
R9 1K
R11 1K
R15 1K
R16 1K
R17 1K
R18 1K
R19 1K
R20 1K
R21 1K
R22 1K
AuxLedx
DiskLedx
LedD0x
LedD1x
LedD2x
LedD3x
LedD4x
LedD5x
LedD6x
LedD7x
SW6 SW_SPDT
R10 1K
R13 1K
R23 1K
R24 1K
R25 1K
R26 1K
R27 1K
R28 1K
+3V3x
Front panel connector
J2 Conn_01x18
Display
J7 Conn_01x04
J12 Conn_01x04
H6 MountingHole
XK4 XKGraphic
XK3 XKGraphic
XK1 XKGraphic
XK2 XKGraphic
H7 MountingHole
H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole
R40 10k
R39 10k
C24 100nF
D12 1N4148W
R38 10k
Reset
Mreq
RP2350 RomWBW with RC2014 bus - IO only.
Ext Kits
Sheet: /
File: Wbw_bus.kicad_sch
Title: Rom WBW_Bus
Size: A3
Date: 2025-09-22
Rev: V1
KiCad E.D.A. 9.0.4
Id: 1/1