fpga

File: fpga.kicad_sch

memory

File: memory.kicad_sch

peripherial

File: peripherial.kicad_sch

mcu

File: mcu.kicad_sch

storage

File: storage.kicad_sch

floppy

File: floppy.kicad_sch

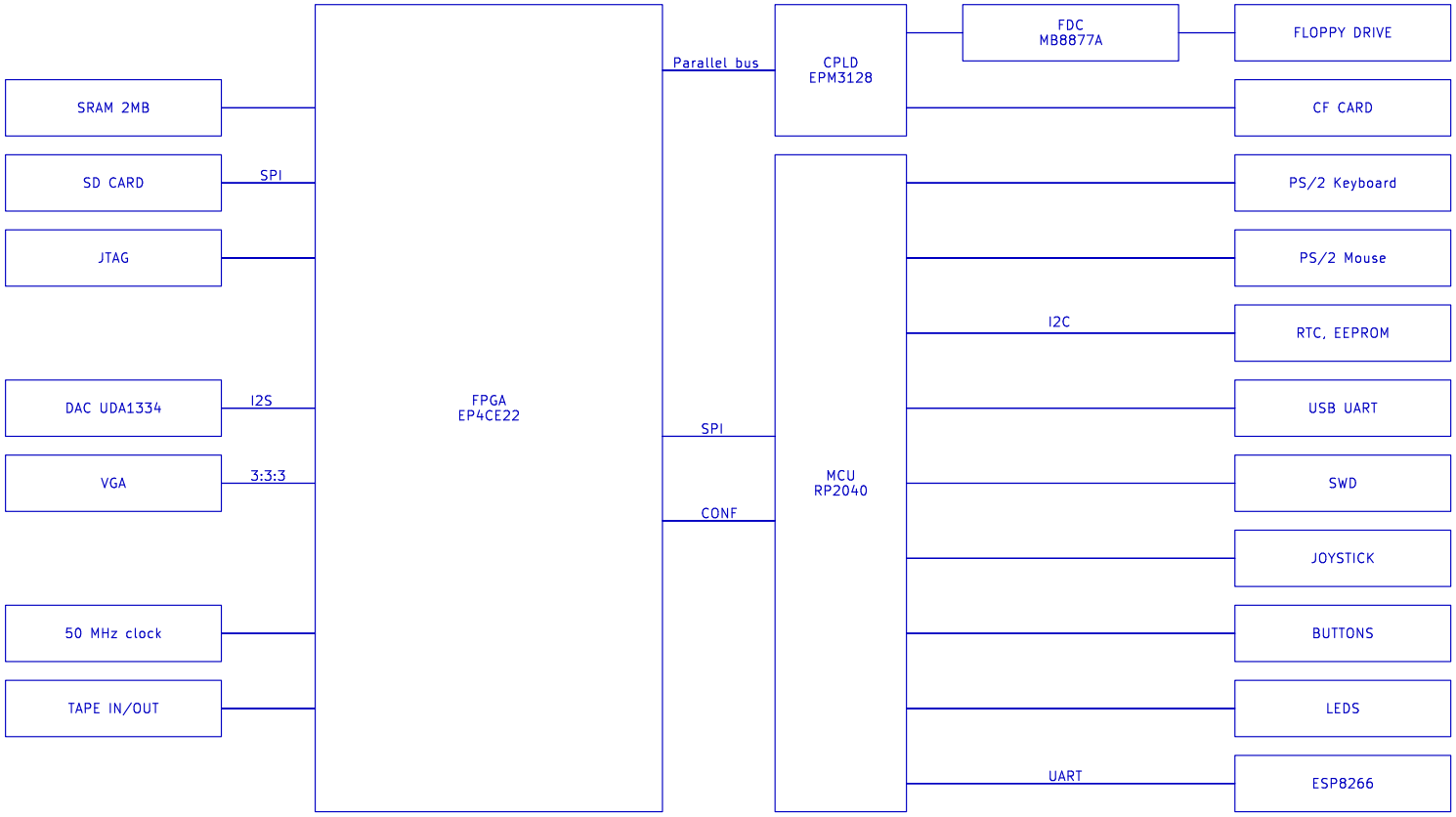
interfaces

File: interfaces.kicad_sch

power

File: power.kicad_sch

Karabas Pro Rev.F a4 simplified block diagram



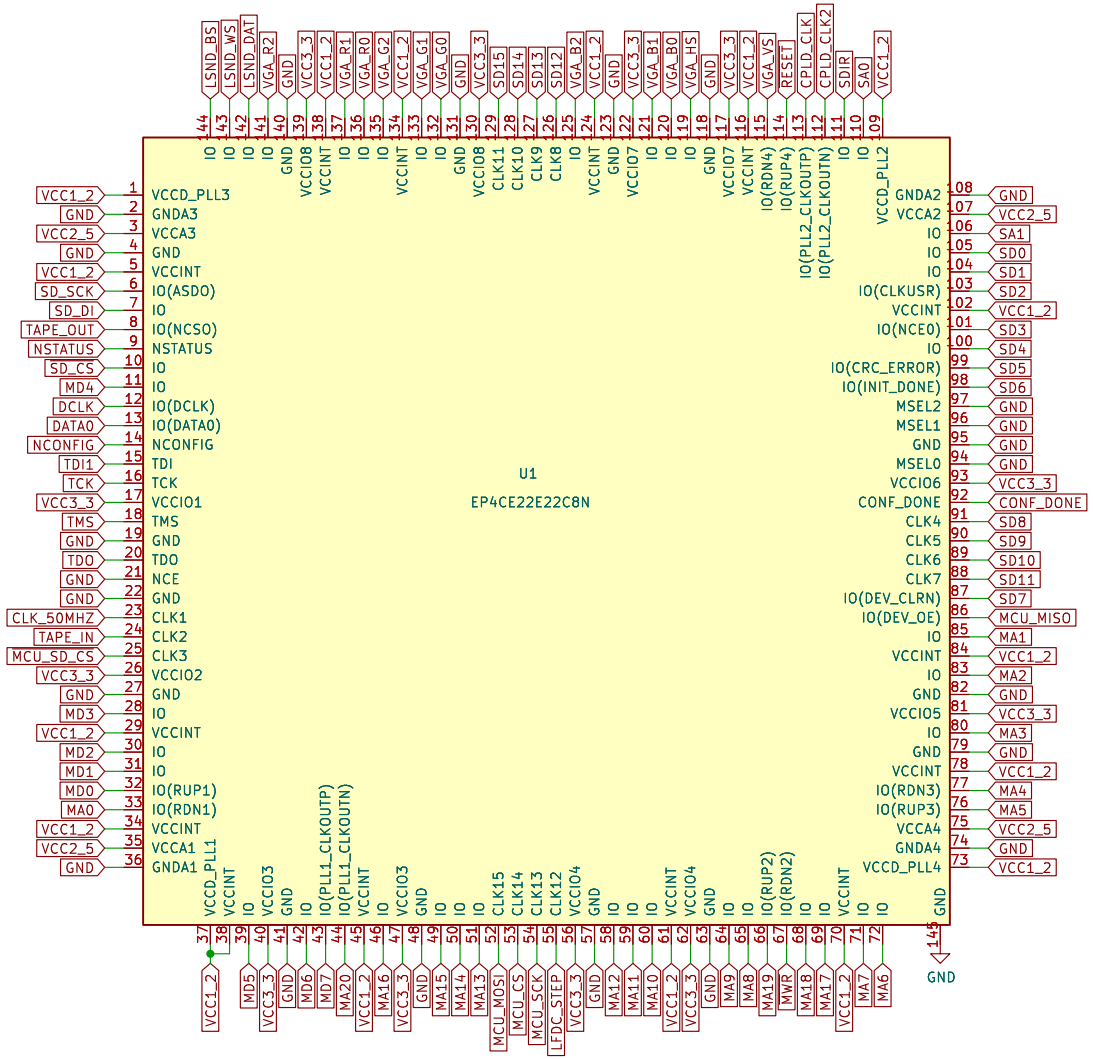
H1 MountingHole GND
H3 MountingHole GND
H5 MountingHole GND
H7 MountingHole GND
H2 MountingHole GND
H4 MountingHole GND
H6 MountingHole GND
H8 MountingHole GND

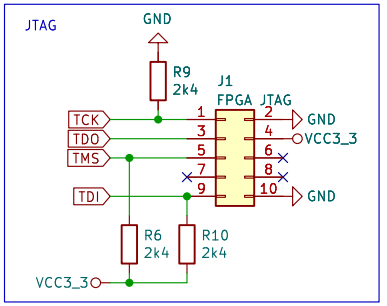
LOGO_BOTTOM1 LOGO_TOP1 LOGO_ANDY1

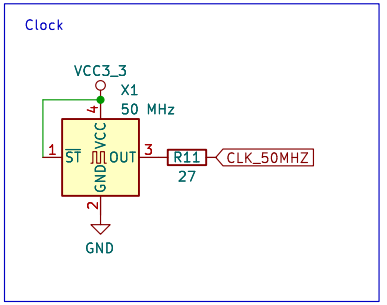
Sheet: /
File: karabas-pro-revF.kicad_sch

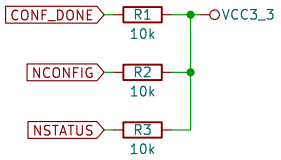
Title: Karabas Pro

Size: A4	Date: 2026-02-23	**Rev: F a4**
KiCad E.D.A. 9.0.7		Id: 1/9









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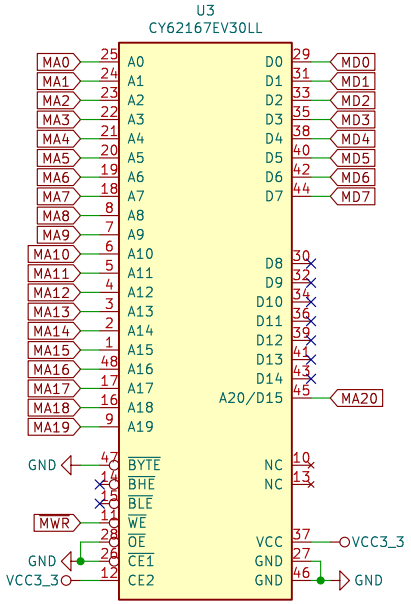
KiCad E.D.A. 9.0.7		Id: 2/9



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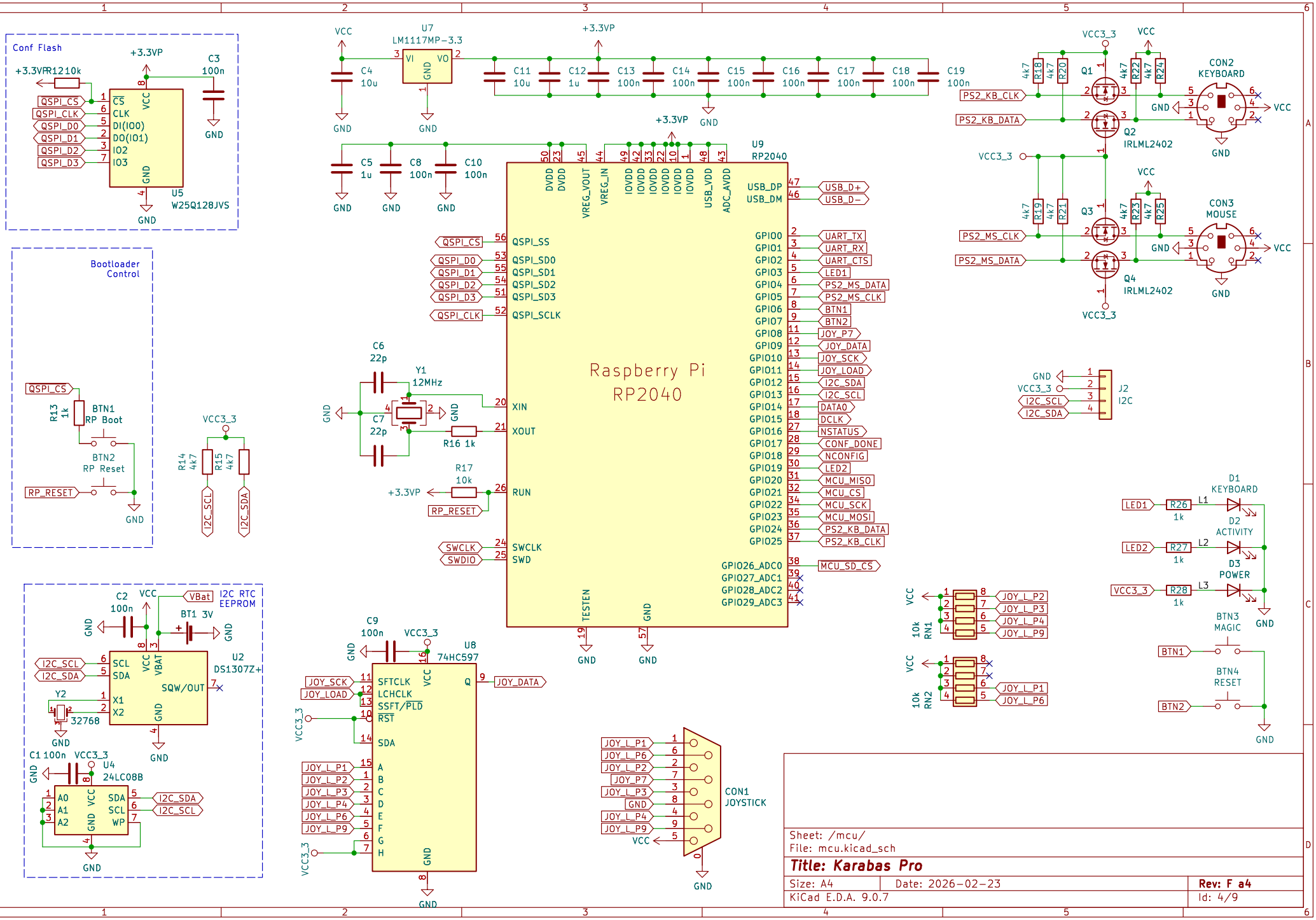
KiCad E.D.A. 9.0.7		Id: 3/9


Conf Flash
+3.3VP
+3.3VP
R1210k
C3
100n
QSPI_CS
QSPI_CLK
QSPI_D0
QSPI_D1
QSPI_D2
QSPI_D3
CS
CLK
DI(IO0)
DO(IO1)
IO2
IO3
VCC
GND
U5
W25Q128JVS
GND
GND
Bootloader Control
QSPI_CS
R13 1k
BTN1
RP Boot
BTN2
RP Reset
RP_RESET
GND
VCC3_3
R14 4k7
R15 4k7
I2C_SCL
I2C_SDA
VCC
U7
LM1117MP-3.3
VI
VO
GND
C4 10u
GND
GND
+3.3VP
C11 10u
C12 1u
C13 100n
C14 100n
C15 100n
C16 100n
C17 100n
C18 100n
C19 100n
GND
+3.3VP
C5 1u
C8 100n
C10 100n
GND
GND
GND
U9
RP2040
DVDD
DVDD
VREG_VOUT
VREG_IN
IOVDD
IOVDD
IOVDD
IOVDD
IOVDD
IOVDD
USB_VDD
ADC_AVDD
QSPI_SS
QSPI_SD0
QSPI_SD1
QSPI_SD2
QSPI_SD3
QSPI_SCLK
QSPI_CS
QSPI_D0
QSPI_D1
QSPI_D2
QSPI_D3
QSPI_CLK
C6 22p
Y1 12MHz
C7 22p
R16 1k
XIN
XOUT
R17 10k
RUN
RP_RESET
SWCLK
SWD
SWCLK
SWDIO
TESTEN
GND
GND
Raspberry Pi
RP2040
USB_DP
USB_DM
USB_D+
USB_D-
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
UART_TX
UART_RX
UART_CTS
LED1
PS2_MS_DATA
PS2_MS_CLK
BTN1
BTN2
JOY_P7
JOY_DATA
JOY_SCK
JOY_LOAD
I2C_SDA
I2C_SCL
DATA0
DCLK
NSTATUS
CONF_DONE
NCONFIG
LED2
MCU_MISO
MCU_CS
MCU_SCK
MCU_MOSI
PS2_KB_DATA
PS2_KB_CLK
MCU_SD_CS
VCC3_3
VCC
Q1
Q2
IRLML2402
R18 4k7
R20 4k7
R22 4k7
R24 4k7
CON2
KEYBOARD
PS2_KB_CLK
PS2_KB_DATA
GND
VCC
Q3
Q4
IRLML2402
R19 4k7
R21 4k7
R23 4k7
R25 4k7
CON3
MOUSE
PS2_MS_CLK
PS2_MS_DATA
GND
VCC
VCC3_3
GND
VCC3_3
I2C_SCL
I2C_SDA
J2
I2C
VCC
10k RN1
JOY_L_P2
JOY_L_P3
JOY_L_P4
JOY_L_P9
VCC
10k RN2
JOY_L_P1
JOY_L_P6
LED1
R26 1k
L1
D1
KEYBOARD
LED2
R27 1k
L2
D2
ACTIVITY
VCC3_3
R28 1k
L3
D3
POWER
GND
BTN3
MAGIC
BTN1
BTN4
RESET
BTN2
GND
C2 100n
VCC
VBat
I2C RTC
EEPROM
BT1 3V
GND
GND
I2C_SCL
I2C_SDA
SCL
SDA
VCC
VBAT
SQW/OUT
U2
DS1307Z+
Y2
X1
X2
32768
GND
GND
C1 100n
VCC3_3
U4
24LC08B
A0
A1
A2
GND
VCC
SDA
SCL
WP
I2C_SDA
I2C_SCL
GND
C9 100n
VCC3_3
U8
74HC597
SFTCLK
LCHCLK
SSFT/PLD
RST
SDA
A
B
C
D
E
F
G
H
VCC
Q
JOY_DATA
JOY_SCK
JOY_LOAD
VCC3_3
JOY_L_P1
JOY_L_P2
JOY_L_P3
JOY_L_P4
JOY_L_P6
JOY_L_P9
VCC3_3
GND
GND
JOY_L_P1
JOY_L_P6
JOY_L_P2
JOY_P7
JOY_L_P3
GND
JOY_L_P4
JOY_L_P9
VCC
CON1
JOYSTICK
GND
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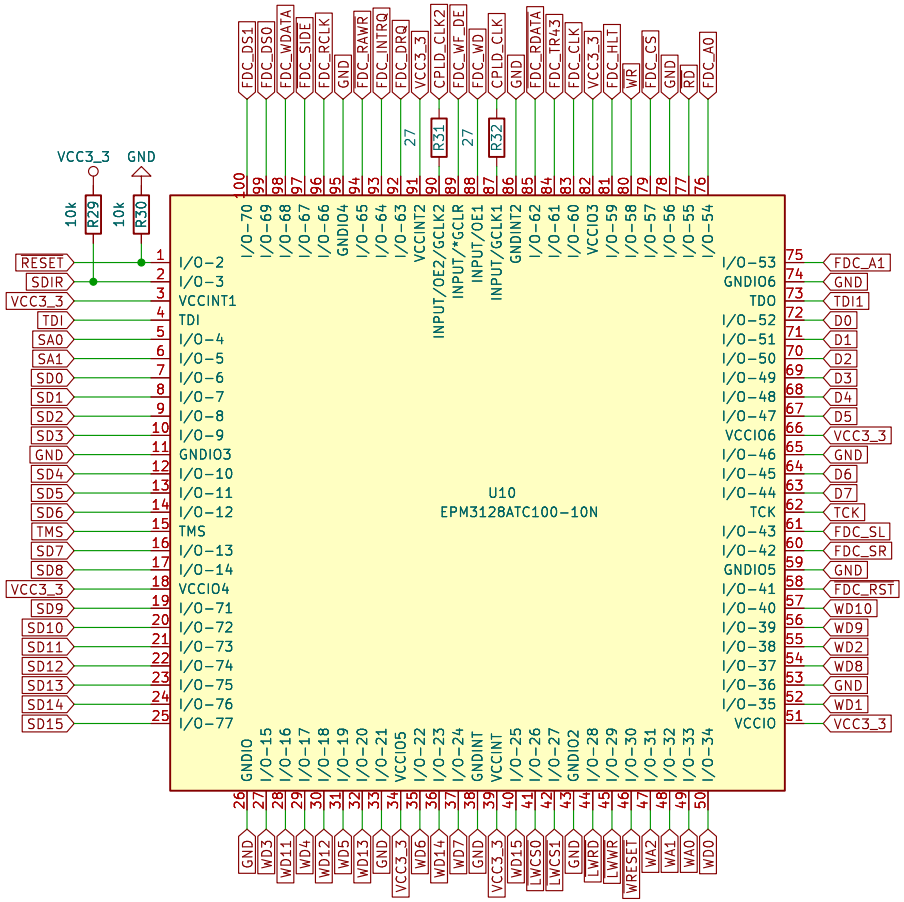
Size: A4
Date: 2026-02-23
Rev: F a4
KiCad E.D.A. 9.0.7
Id: 4/9



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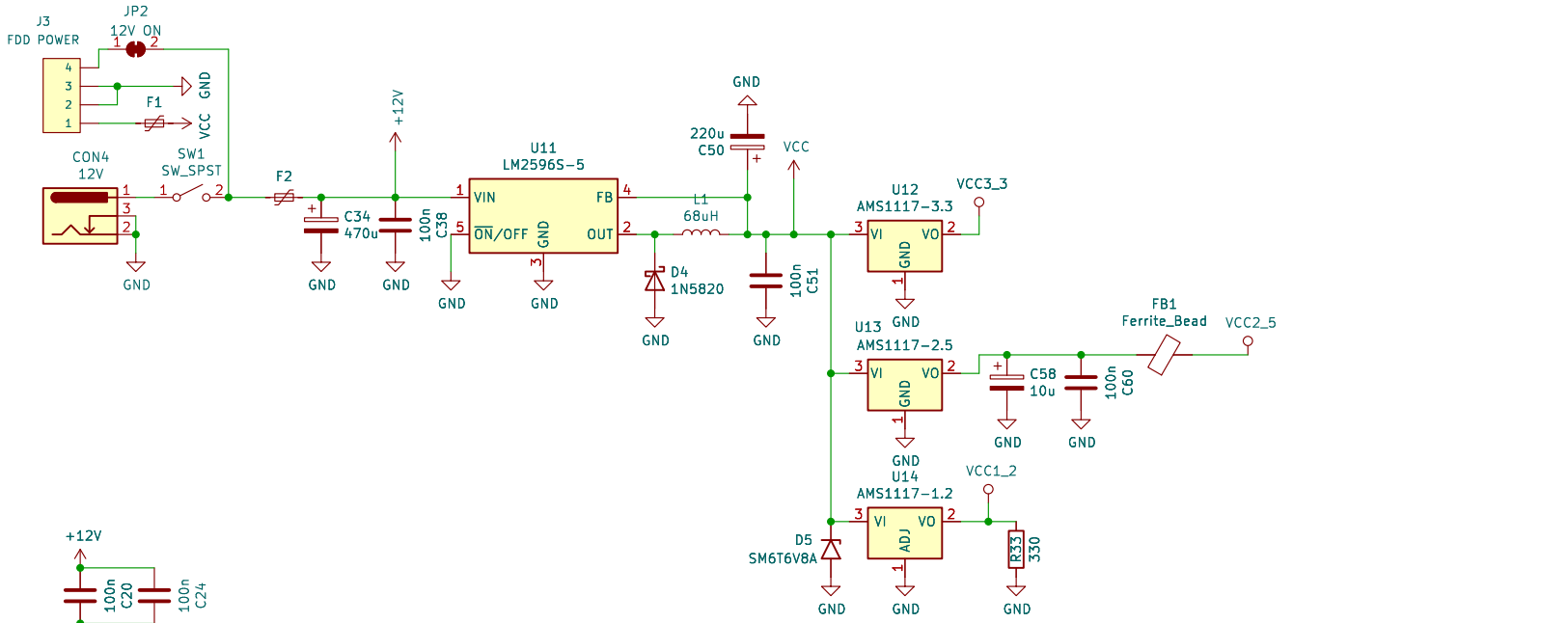
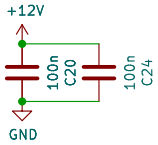
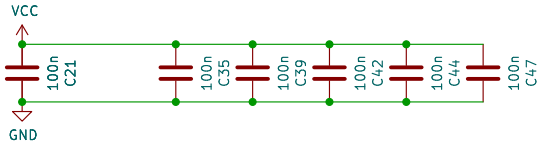
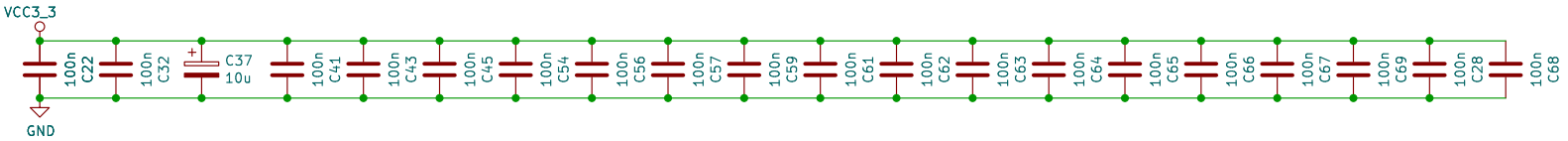
Title: Karabas Pro

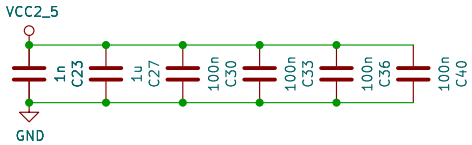
Size: A4	Date: 2026-02-23	**Rev: F a4**
KiCad E.D.A. 9.0.7		Id: 5/9

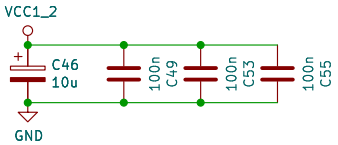












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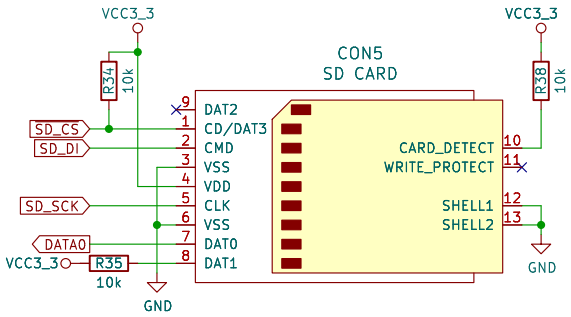
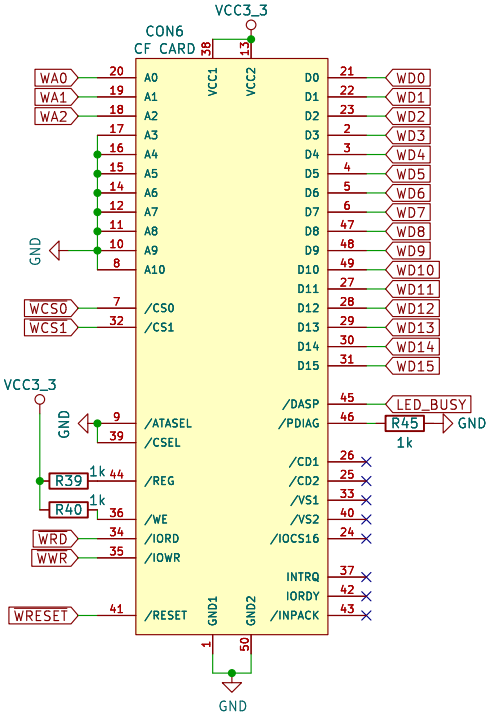
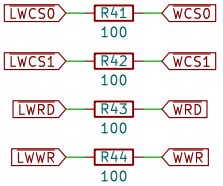
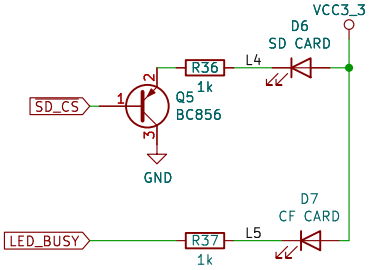
Title: Karabas Pro

Size: A4	Date: 2026-02-23	**Rev: F a4**
KiCad E.D.A. 9.0.7		Id: 6/9









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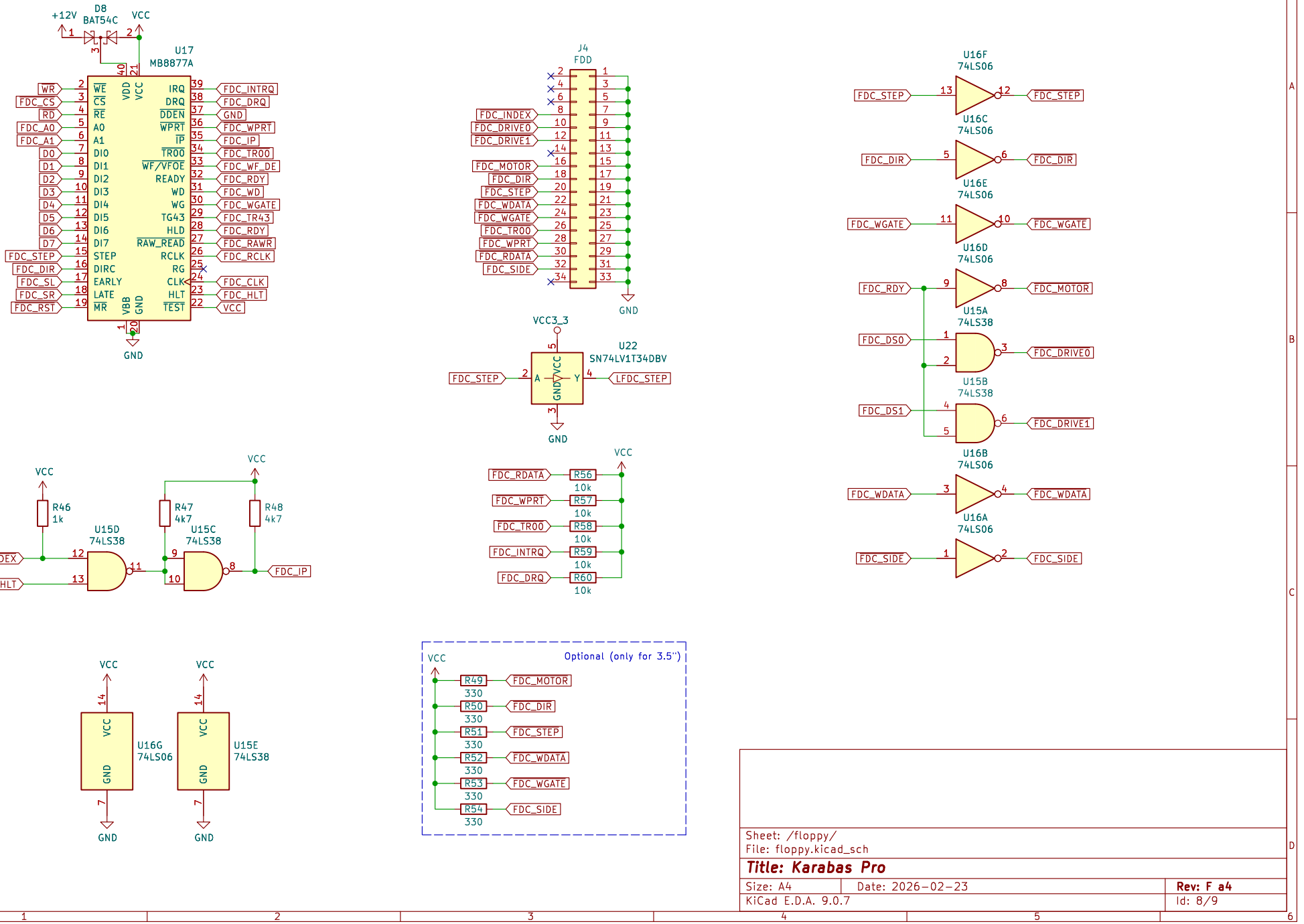
Title: Karabas Pro

Size: A4	Date: 2026-02-23	**Rev: F a4**
KiCad E.D.A. 9.0.7		Id: 7/9



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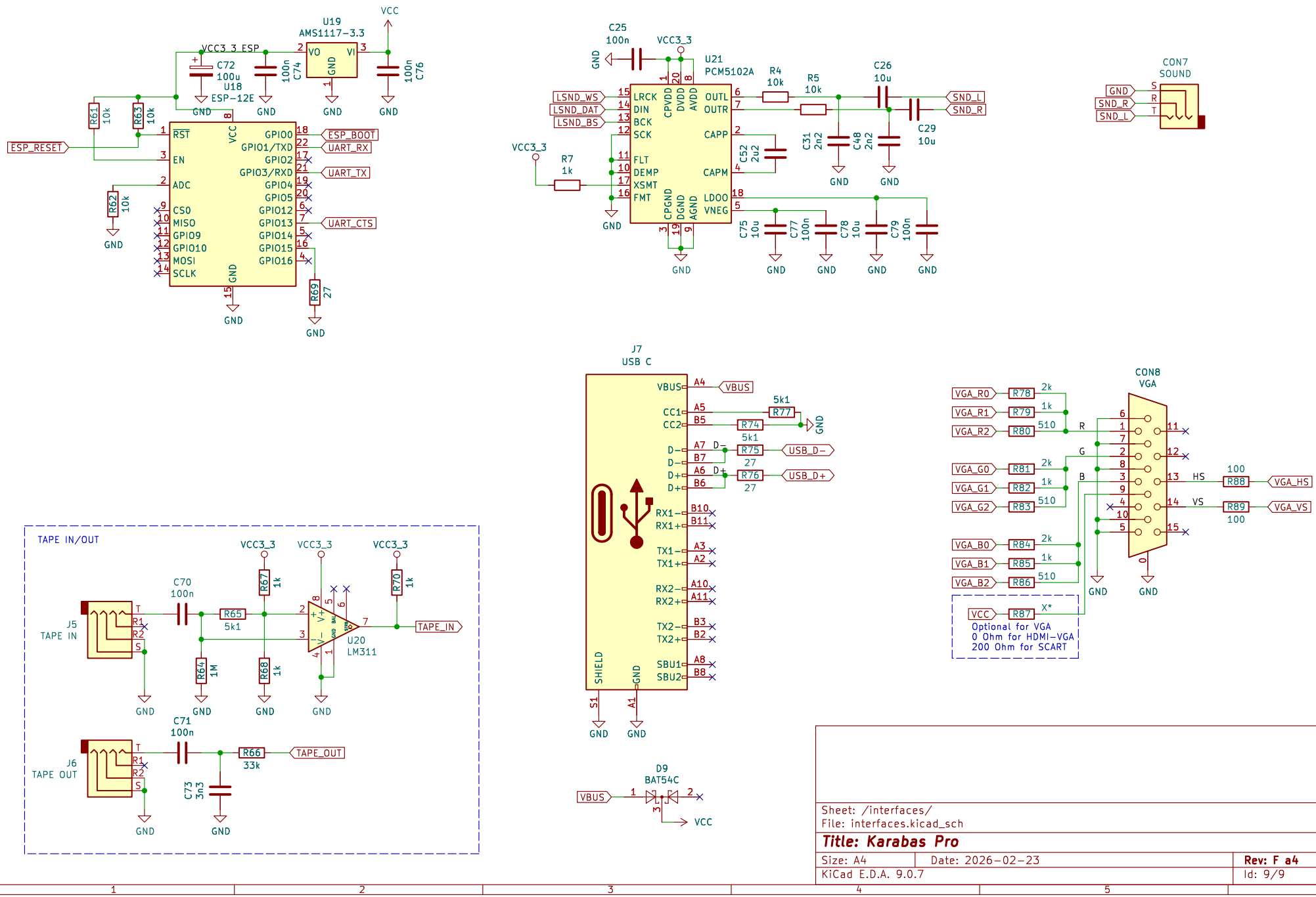
Size: A4	Date: 2026-02-23	**Rev: F a4**
KiCad E.D.A. 9.0.7		Id: 8/9



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KiCad E.D.A. 9.0.7		Id: 9/9