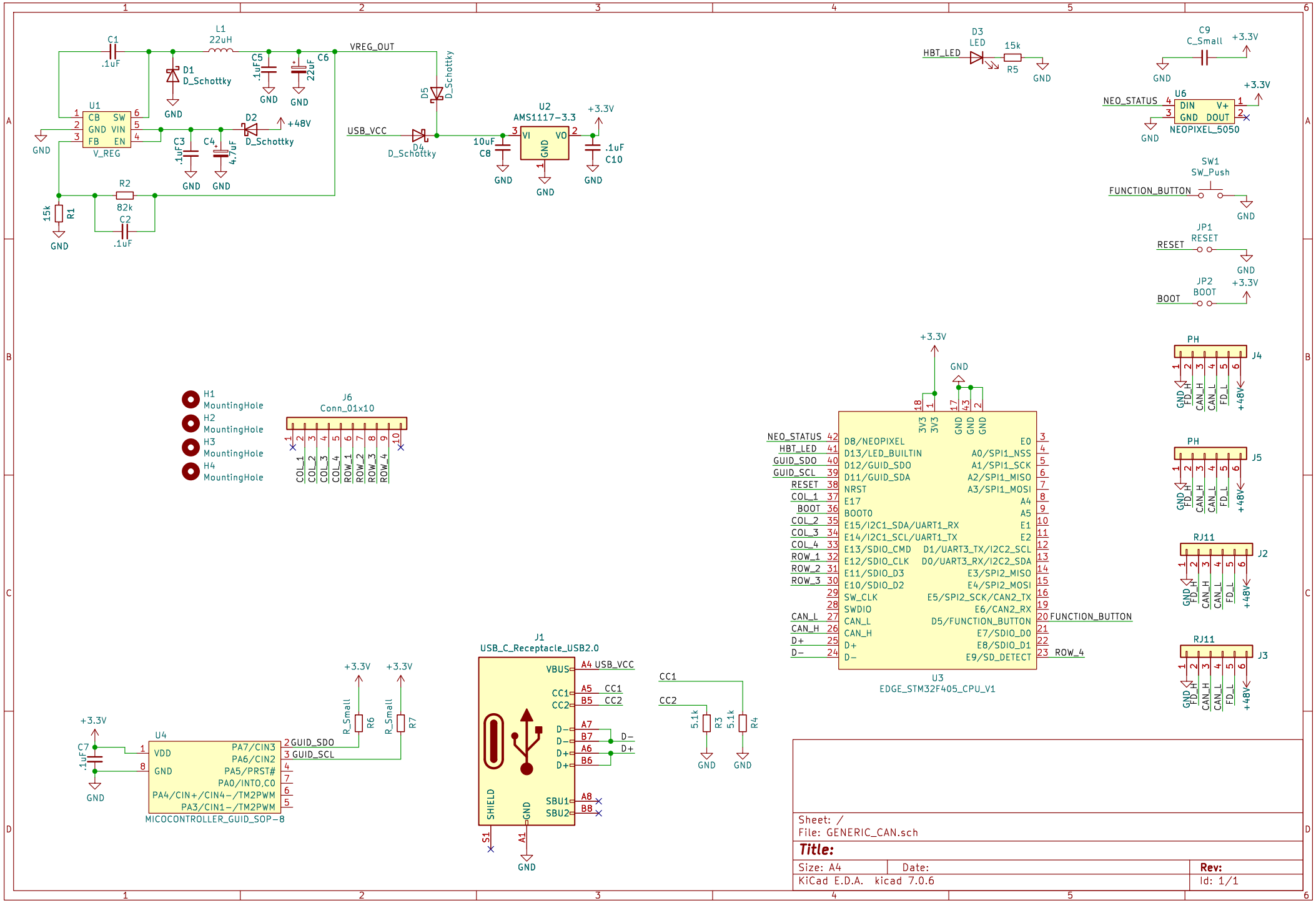
U1
V_REG
CB SW
GND VIN
FB EN
C1 .1uF
L1 22uH
D1 D_Schottky
C5 .1uF
C6 22uF
VREG_OUT
D5 D_Schottky
D2 D_Schottky
+48V
C3 .1uF
C4 4.7uF
R2 82k
C2 .1uF
R1 15k
GND
USB_VCC
D4 D_Schottky
U2
AMS1117-3.3
VI VO
GND
10uF C8
.1uF C10
+3.3V
D3 LED
HBT_LED
15k R5
C9 C_Small
U6
NEOPIXEL_5050
NEO_STATUS
DIN V+
GND DOUT
SW1 SW_Push
FUNCTION_BUTTON
JP1 RESET
RESET
JP2 BOOT
BOOT
H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole
J6 Conn_01x10
COL_1 COL_2 COL_3 COL_4 ROW_1 ROW_2 ROW_3 ROW_4
U3
EDGE_STM32F405_CPU_V1
3V3 3V3 GND GND GND
D8/NEOPIXEL
D13/LED_BUILTIN
D12/GUID_SDO
D11/GUID_SDA
NRST
E17
BOOT0
E15/I2C1_SDA/UART1_RX
E14/I2C1_SCL/UART1_TX
E13/SDIO_CMD
E12/SDIO_CLK
E11/SDIO_D3
E10/SDIO_D2
SW_CLK
SWDIO
CAN_L
CAN_H
D+
D−
E0
A0/SPI1_NSS
A1/SPI1_SCK
A2/SPI1_MISO
A3/SPI1_MOSI
A4
A5
E1
E2
D1/UART3_TX/I2C2_SCL
D0/UART3_RX/I2C2_SDA
E3/SPI2_MISO
E4/SPI2_MOSI
E5/SPI2_SCK/CAN2_TX
E6/CAN2_RX
D5/FUNCTION_BUTTON
E7/SDIO_D0
E8/SDIO_D1
E9/SD_DETECT
ROW_4
PH J4
PH J5
RJ11 J2
RJ11 J3
GND FD_H CAN_H CAN_L FD_L +48V
U4
MICOCONTROLLER_GUID_SOP-8
VDD
GND
PA7/CIN3
PA6/CIN2
PA5/PRST#
PA0/INTO,CO
PA4/CIN+/CIN4−/TM2PWM
PA3/CIN1−/TM2PWM
GUID_SDO
GUID_SCL
C7 .1uF
R_Small R6
R_Small R7
J1
USB_C_Receptacle_USB2.0
VBUS
CC1
CC2
D−
D+
SBU1
SBU2
SHIELD
S1
A1
A4 USB_VCC
A5 CC1
B5 CC2
A7 B7 D−
A6 B6 D+
A8
B8
CC1
CC2
5.1k R3
5.1k R4
Sheet: /
File: GENERIC_CAN.sch
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Size: A4
Date:
Rev:
KiCad E.D.A. kicad 7.0.6
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