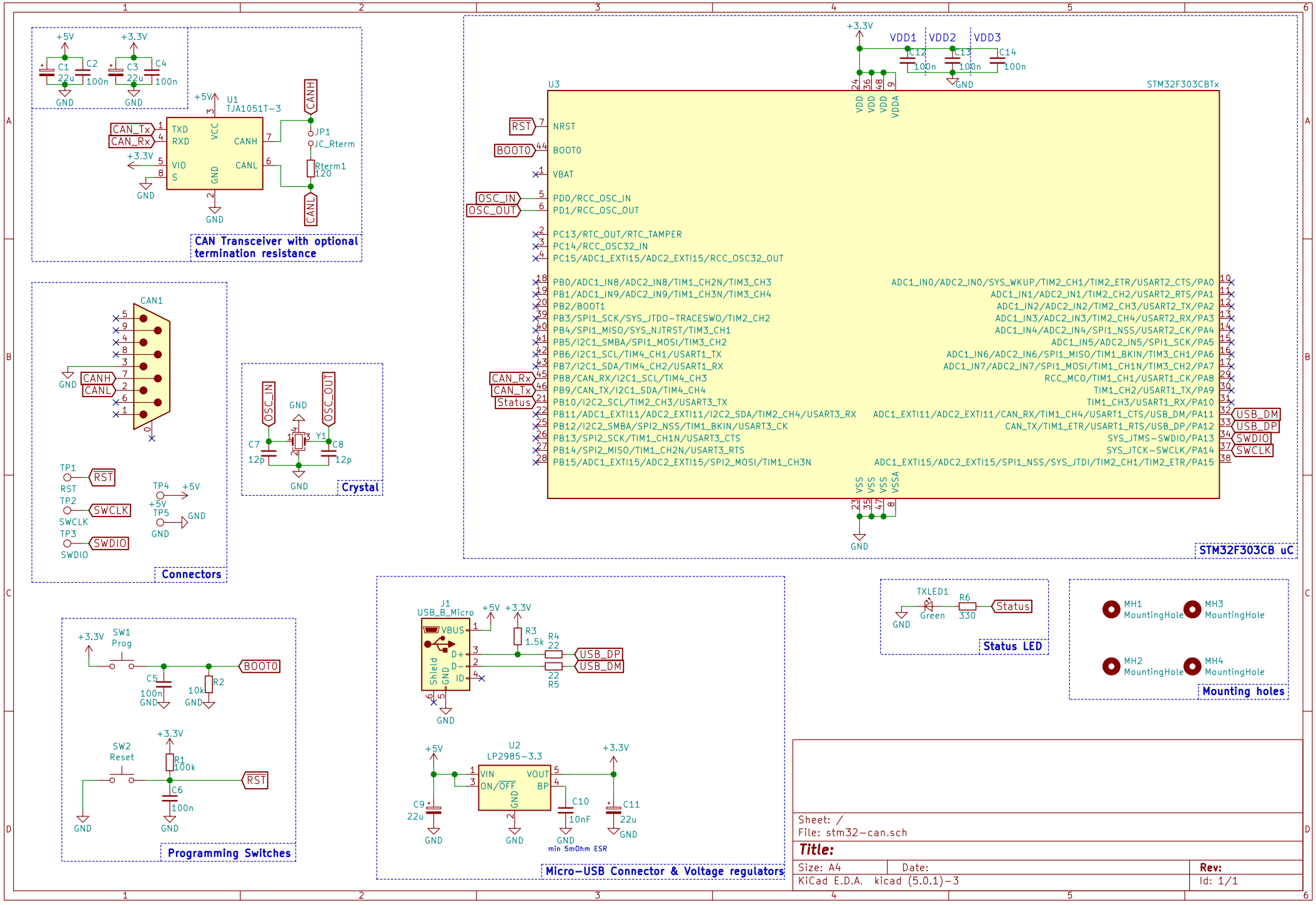
CAN Transceiver with optional termination resistance
U1
TJA1051T-3
TXD
RXD
VIO
S
VCC
GND
CANH
CANL
CAN_Tx
CAN_Rx
JP1
JC_Rterm
Rterm1
120
+5V
+3.3V
C1
22u
C2
100n
C3
22u
C4
100n
GND
Connectors
CAN1
TP1
RST
TP2
SWCLK
TP3
SWDIO
TP4
TP5
Crystal
OSC_IN
OSC_OUT
Y1
C7
12p
C8
12p
Programming Switches
SW1
Prog
BOOT0
C5
100n
R2
10k
SW2
Reset
R1
100k
C6
100n
Micro-USB Connector & Voltage regulators
J1
USB_B_Micro
VBUS
D+
D-
ID
Shield
R3
1.5k
R4
22
R5
22
USB_DP
USB_DM
U2
LP2985-3.3
VIN
ON/OFF
VOUT
BP
C9
22u
C10
10nF
min 5mOhm ESR
C11
22u
STM32F303CB uC
U3
STM32F303CBTx
VDD1
VDD2
VDD3
C12
100n
C13
100n
C14
100n
NRST
BOOT0
VBAT
PD0/RCC_OSC_IN
PD1/RCC_OSC_OUT
PC13/RTC_OUT/RTC_TAMPER
PC14/RCC_OSC32_IN
PC15/ADC1_EXTI15/ADC2_EXTI15/RCC_OSC32_OUT
PB0/ADC1_IN8/ADC2_IN8/TIM1_CH2N/TIM3_CH3
PB1/ADC1_IN9/ADC2_IN9/TIM1_CH3N/TIM3_CH4
PB2/BOOT1
PB3/SPI1_SCK/SYS_JTDO-TRACESWO/TIM2_CH2
PB4/SPI1_MISO/SYS_NJTRST/TIM3_CH1
PB5/I2C1_SMBA/SPI1_MOSI/TIM3_CH2
PB6/I2C1_SCL/TIM4_CH1/USART1_TX
PB7/I2C1_SDA/TIM4_CH2/USART1_RX
PB8/CAN_RX/I2C1_SCL/TIM4_CH3
PB9/CAN_TX/I2C1_SDA/TIM4_CH4
PB10/I2C2_SCL/TIM2_CH3/USART3_TX
PB11/ADC1_EXTI11/ADC2_EXTI11/I2C2_SDA/TIM2_CH4/USART3_RX
PB12/I2C2_SMBA/SPI2_NSS/TIM1_BKIN/USART3_CK
PB13/SPI2_SCK/TIM1_CH1N/USART3_CTS
PB14/SPI2_MISO/TIM1_CH2N/USART3_RTS
PB15/ADC1_EXTI15/ADC2_EXTI15/SPI2_MOSI/TIM1_CH3N
ADC1_IN0/ADC2_IN0/SYS_WKUP/TIM2_CH1/TIM2_ETR/USART2_CTS/PA0
ADC1_IN1/ADC2_IN1/TIM2_CH2/USART2_RTS/PA1
ADC1_IN2/ADC2_IN2/TIM2_CH3/USART2_TX/PA2
ADC1_IN3/ADC2_IN3/TIM2_CH4/USART2_RX/PA3
ADC1_IN4/ADC2_IN4/SPI1_NSS/USART2_CK/PA4
ADC1_IN5/ADC2_IN5/SPI1_SCK/PA5
ADC1_IN6/ADC2_IN6/SPI1_MISO/TIM1_BKIN/TIM3_CH1/PA6
ADC1_IN7/ADC2_IN7/SPI1_MOSI/TIM1_CH1N/TIM3_CH2/PA7
RCC_MCO/TIM1_CH1/USART1_CK/PA8
TIM1_CH2/USART1_TX/PA9
TIM1_CH3/USART1_RX/PA10
ADC1_EXTI11/ADC2_EXTI11/CAN_RX/TIM1_CH4/USART1_CTS/USB_DM/PA11
CAN_TX/TIM1_ETR/USART1_RTS/USB_DP/PA12
SYS_JTMS-SWDIO/PA13
SYS_JTCK-SWCLK/PA14
ADC1_EXTI15/ADC2_EXTI15/SPI1_NSS/SYS_JTDI/TIM2_CH1/TIM2_ETR/PA15
RST
BOOT0
OSC_IN
OSC_OUT
CAN_Rx
CAN_Tx
Status
USB_DM
USB_DP
SWDIO
SWCLK
VDD
VDDA
VSS
VSSA
Status LED
TXLED1
Green
R6
330
Mounting holes
MH1
MountingHole
MH2
MountingHole
MH3
MountingHole
MH4
MountingHole
Sheet: /
File: stm32-can.sch
Title:
Size: A4
Date:
Rev:
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Id: 1/1