Can bus Ports

Microcontroller

Switch

Magnetics RJ45

J1
Molex_micro_fit_2X2
+5V
CAN1+
CAN1−
CANH_1
CANL_1

J2
Molex_micro_fit_2X2
CAN2+
CAN2−
CANH_2
CANL_2

J3
Molex_micro_fit_2X2
CAN3+
CAN3−
CANH_3
CANL_3
GND

H2 MountingHole
H3 MountingHole
H4 MountingHole

Sheet: mcu_stm32
File: mcu_stm32_1.sch

ETH_COL
ETH_CRS
ETH_RX_CLK
ETH_TX_CLK
ETH_RX_DV
ETH_RXD0
ETH_RXD1
ETH_RXD2
ETH_RXD3
ETH_TX_EN
ETH_TXD0
ETH_TXD1
ETH_TXD2
ETH_TXD3
ETH_RX_ER
SPI_SCK
SPI_CS
SPI_MOSI
SPI_MISO
RESET_N
PWRDN
ETH_MDIO
ETH_MDC

Sheet: switch
File: switch.sch

SCL_SPI
chip_select_SPI
Data_in_MOSI_SPI
Data_out_MISO_SPI
switch_reset
power_menegment_event

TX1P+
TX1M−
RX1P
RX1M
LED1_0
LED1_1
TX2P
TX2M
RX2P
RX2M
LED2_0
LED2_1
TX3P
TX3M
RX3P
RX3M
LED3_0
LED3_1
TX4P
TX4M
RX4P
RX4M
LED4_0
LED4_1
TX5P
TX5M
RX5P
RX5M
LED5_0
LED5_1

RJ45_Magjack_Connector
P6+
P4−
P3
P1
P10−_yello_led
p12−_green_led
P9+_Yello_led
P11+_green_led
P5
P2
P8_gnd
J4
R14 330
R15 330
0.1uF C1
0.1uF C2
1000p C3
GND
GNDPWR
H1 MountingHole

RJ45_Magjack_Connector
J6
R16 330
R17 330
C7 0.1uF
C8 0.1uF
C9 1000p
+3.3V

RJ45_Magjack_Connector
J7
R18 330
R19 330
C10 0.1uF
C11 0.1uF
C12 1000p

RJ45_Magjack_Connector
J8
R20 330
R21 330
C13 0.1uF
C14 0.1uF
C15 1000p

LDO

LINEAR_LDO
U12
C77 10uF
C78 10uF
2.5v
VDDHS_IN

U10
C5 0.1uF
C6 10uF
1.2v
VDDLS_IN

U3
C72 10uF
C73 10uF
2.5v
AVDDH_IN

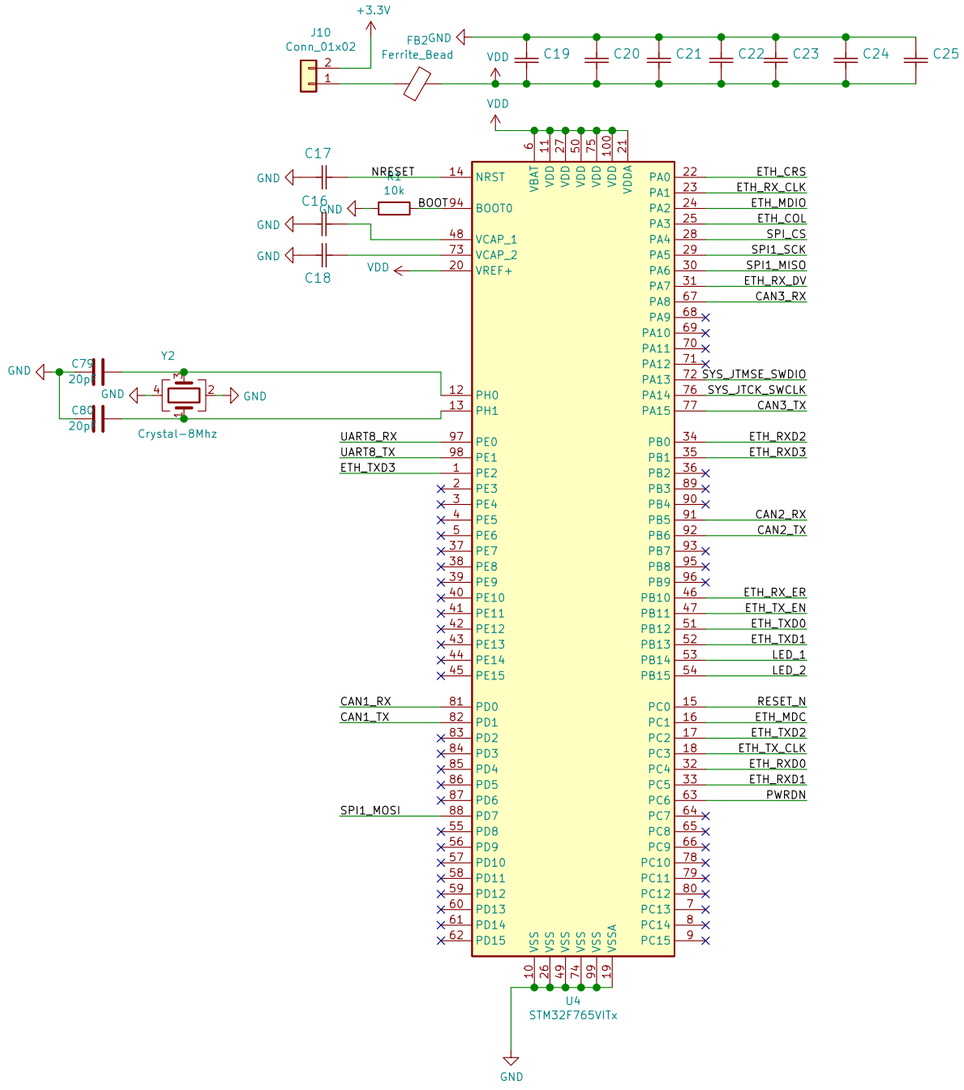
U1
C68 10uF
C69 10uF
+3.3V

U2
C70 0.1uF
C71 10uF
1.2v
DVDDL_IN

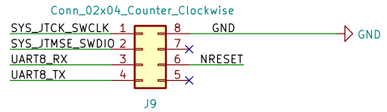
U11
C75 0.1uF
C76 10uF
1.2v
AVDDL_IN

Sheet: /
File: AVB switch with Can gateway.sch
Title:
Size: A3
Date:
Rev:
KiCad E.D.A. kicad (5.1.6)−1
Id: 1/3

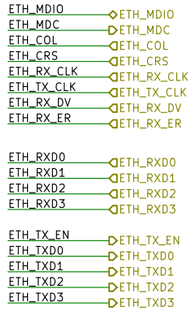
Microcontroller



DEBUG



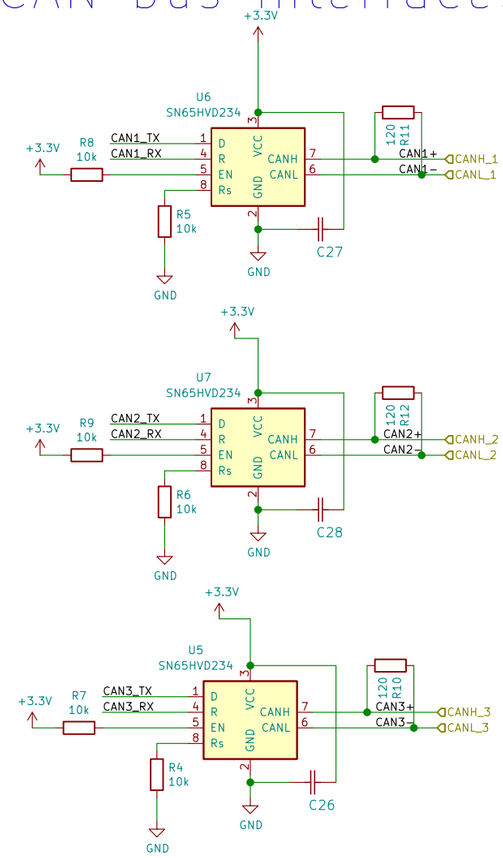
MII interface



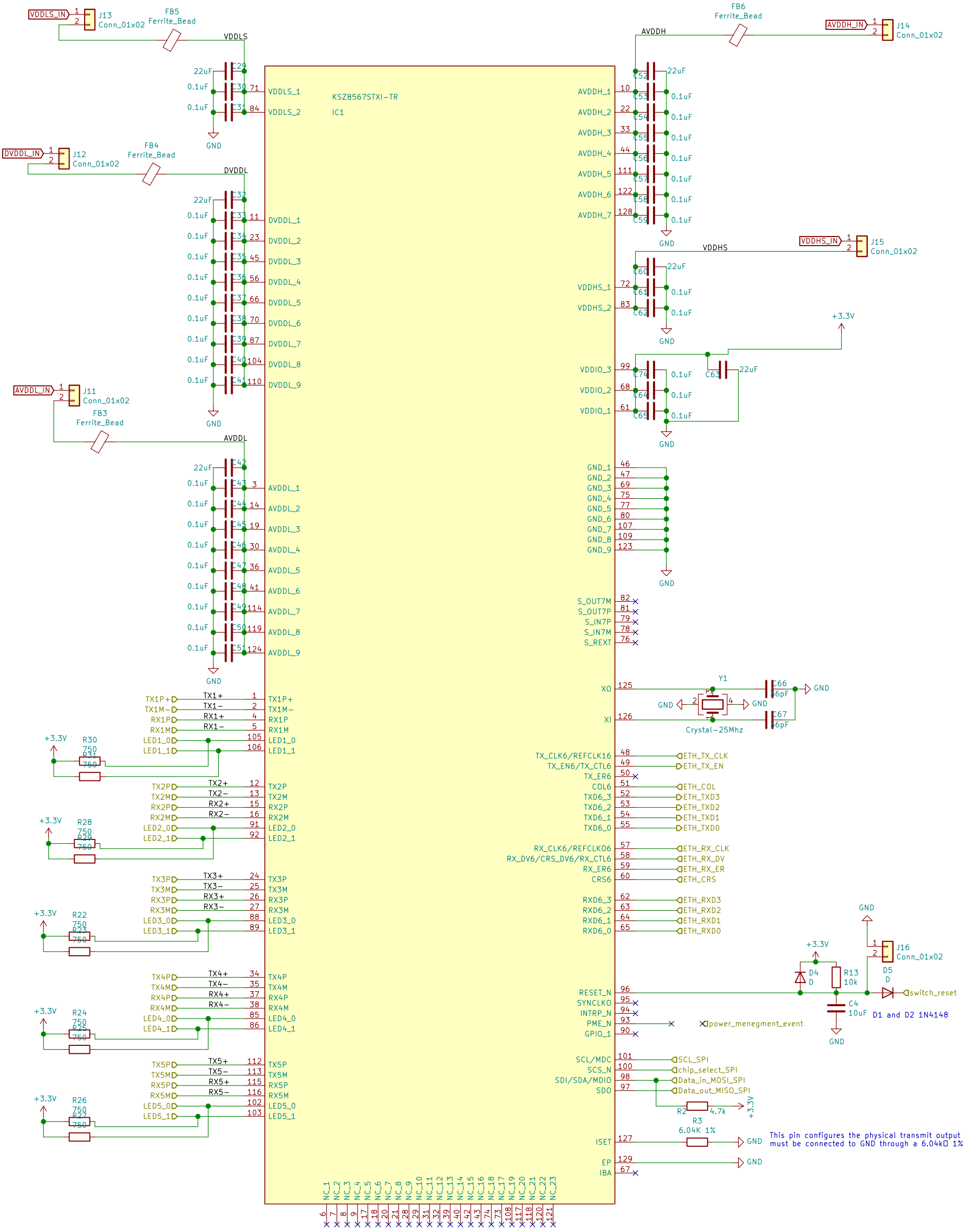
Switch manage interface

Led indication

CAN bus interfaces



Sheet: /mcu_stm32/		
File: mcu_stm32_1.sch		
Title:		
Size: A3	Date:	**Rev:**
KiCad E.D.A. kicad (5.1.6)-1		Id: 2/3



Sheet: /switch/
File: switch.sch

Title:

Size: A3	Date:	**Rev:**
KiCad E.D.A. kicad (5.1.6)-1		Id: 3/3