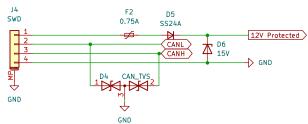
Main connector to the car's electronics

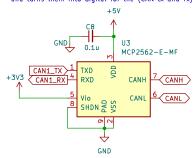


SW1 VCC SW_Nidec_CAS-120A1

GND

Resonator

This is the CAN transciever which takes the CANH and L differential signals and turns them into digital for the (CAN tx and rx) for the chip



USB_5V J5 USB_B_Micro

R1_USB1 22R

C_MPU_PWR2 C_MPU_PWR3

PA1 145
PA1 16
PA3 14
PA4 20
PA6 24
PA6 24
PA7 24
PA8 44
PA7 24
PA8 44
PA8 44
PA9 44
PA1 45
PA1 45
PA1 45
PA1 45
PA1 5 SWCLK
PA1 5 SC

P80 26 P81 27 P82 28 P83 25 SPLCL P84 56 SPLMISO_FLASH P85 57 SPLMOSL_FLASH P86 58 P87 59 P88 64 P89 62 CS_SCREEN P810 30 P811 34 P812 34 CAN1_TX P813 35 CAN1_TX P814 57 SPLMOSL_SCEEN

_SPI_MOSI_SCREEN

PB14 35 PB15 36

U1 STM32F405RGTx

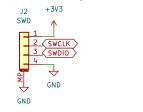
GND

+3V3 🕶 🗗

×⁷ NRST

RST_SCREEN 8
DC_SCREEN 9
PC1
BL_SCREEN 10
PC2
11
PC3
24
PC4
25
PC5
37
PC6
28
PC7
29
PC1
29
PC1
20
PC9
21
PC10
22
PC10
23
PC10
24
PC1
24
PC4
25
PC5
27
PC6
28
PC7
29
PC1
20
PC9
20
21
PC10
22
PC10
23
PC10
23
PC11
23
PC12
24
PC15
24
PC15
25
PC10
26
27
PC10
28
PC10
2

This is the little 4-pin used to flash the microcontroller





GND

+3V3

GND

C6 U2 525FL128S

GND

These two take in the main 12V and output 3.3V and 5V for the internal components $_{ m D2}$ 1N5712UR +5V D1 1N5712UR TPS562200 C13 R8 0.1u 56.2k C17 22u R9 10k \rightarrow GND L2 4.7u +3V3 U5 TPS562200 SW 2 C14 R10 0.1u 29.4k 12V Protected C10 C12 22u 22u R11 Consider connecting HOLD to GPIO Consider provisions for QSPI connection GND

This is the connector to the screen

