



Module-can-0.1 V1 V5 M301 CANL S1 S2 Module:mega-mcu100/0.3 V2 V6 CAN_VIO CAN_RX | W1U | IGN1_(PC13) | SPI2_SCK_/_CAN2_TX_(PB13) | E7 | E8 | IGN2_(PE5) | USD card and accelerometer SPI2_MISO_(PB14) | E9 | IGN3_(PE4) | On SPI1 bus | SPI2_MOSL_(PB15) | E9 | IGN3_(PE4) | CR | SPI2_MOSL_(PB15) | E9 | IGN3_(PE4) | IGN3_(PE4 IGN_OUT1 JOUT1 IN1< GND E1 V5 CAN_TX W7 IGN4_(PE3) SPI2_CS_/_CAN2_RX_(PB12) E6 W6 IGN5_(PE2)

× W5 IGN6_(PB8)

W4 IGN7_(PB9)

IGN8_(PE6) M303 Module-wbo-0.5 IGN_OUT[1..4] < File: IGN.kicad sch CANL W3
CANL Power GND LSU_H
CANH W4
CANH Heater negative LSU_H+
LSU_Rtrim
W7
SWCLK Internal TC2030 LSU_Vm
W6
SWDIO connector LSU_Un G
W7
SWEET LSU_Un G SPI3_SCK_(PC10)
SPI3_MISO_(PC11)
SPI3_MOSL_(PC12)
SPI3_CS_(PA15)

N10

N10

N11

N12

PG_5VP

N9 INJ_OUT1 OUT1 IN1< E17 OUT_INJ1_(PD3)
E16 OUT_INJ2_(PA9)
E15 OUT_INJ3_(PD11) INJ_OUT2 OUT2 IN2<INJ_OUT3 OUT3 IN3< CANH W11 CANH W12 CANL E14 OUT_INJ3_(PD11)
E14 OUT_INJ4_(PD10)

E13 OUT_INJ5_(PD2)

E12 OUT_INJ6_(PA8)
E11 OUT_INJ7_(PD15) OUT4 IN4C × W5 nReset Analog/digital GND G PULL_UP1
SEL1
PULL_DOWN1
L VCC1 INJ_OUT[1..4]< File: INJ.kicad_sch {CANH CANL} W9 VDDA Barometer 12C_SDA_(PB11) E4 E3 E3 E10 OUT_INJ8_(PD12) PULL_UP2 J_VCC2 SEL2 J2 PULL_DOWN2 J_GND2 E18 OUT_PWM1_(PD13)
E19 OUT_PWM2_(PC6) F40x does not have UART8_RX_(PE0) UART8_TX_(PE1) N19 E20 OUT_PWM2_(PC6) |
E21 OUT_PWM4_(PC8) |
E22 OUT_PWM5_(PC9) |
OUT_PWM6_(PD14) | Module-lin-0.1 N1 12V 12V 12V LIN V4 LIN UART2_RX_(PD6) N14 UART2_TX_(PD5) N13 USBP_(PA12) N3 USB.DP USBM_(PA11) N2 USB.DM USBID_(PA10) N4 USB.VBUS VBUS N1 USB.VBUS S14 S16 S17 IN_CRANK_(PB1) IN_CAM_(PA6) IN_VSS_(PE11) GND S1 E1 V2 UART_RX V5 UART_TX AIN.TPS S18 IN_TPS_(PA4) IN_PPS_(PA3) USB{DP DM VBUS} AIN.IAT S20 AIN.CLT S21 IN_IAT_(PC3) IN_CLT_(PC2) J301 AIN{TPS IAT CLT MAP OILTEMP1 OILTEMP2} USB_B USB.VBUS S11 IN_025_/_CAN_WAKEUP_(PA0) IN_0252_(PA1) Internal nReset buttons BOOTO N16 AIN.MAP S13 IN_MAP1_(PC0) IN_MAP2_(PC1) KnockAmps LED_GREEN N14a N14b VREF KNOCK_HP1 KNOCK_HP2[KNOCK_OUT2 S15 IN_KNOCK_(PA2) KNOCK[1..2] UKNOCK[1..2] KNOCK_OUT1D S1 IN_D1_(PE12)
S2 IN_D2_(PE13)
IN_D3_(PE14)
IN_D4_(PE15) File: knockamps.kicad_sch V33_SWITCHABLE

Connected V33 N21 + 3.3VA
N21 + 3.3V
N23 + 3.3V
N23 + 3.3V
V5A_SWITCHABLE
V5A_SW S22 VREF1 S5 VREF2 W13 V33_REF PWR_EN N20 OUT_PWR_EN_(PE10) M306 E5 IN_VIGN_(PA5) Module-power_12and5V-0.2 N17 VBAT +12V_RAW < V3 V12_RAW +12V_PERM < V1 V12_PERM V12 E2 × VBAT E3 +5V < N22 VCC GND GND +12V_FROM_KEY < V2 IN_VIGN → +5V 5VP V4 E6 $\begin{array}{c} \rightarrow + 5 v \\ \rightarrow + 5 V P \\ \hline PG_5 V P \end{array}$ PWR_EN E5 EN_5VP D301 1N4148WS JP301 SolderJumper_2_Bridged + BT301 Battery_Cell GND Sheet: /rusefi/ File: rusefi.kicad_sch Title: KiCad E.D.A. 8.0.8





