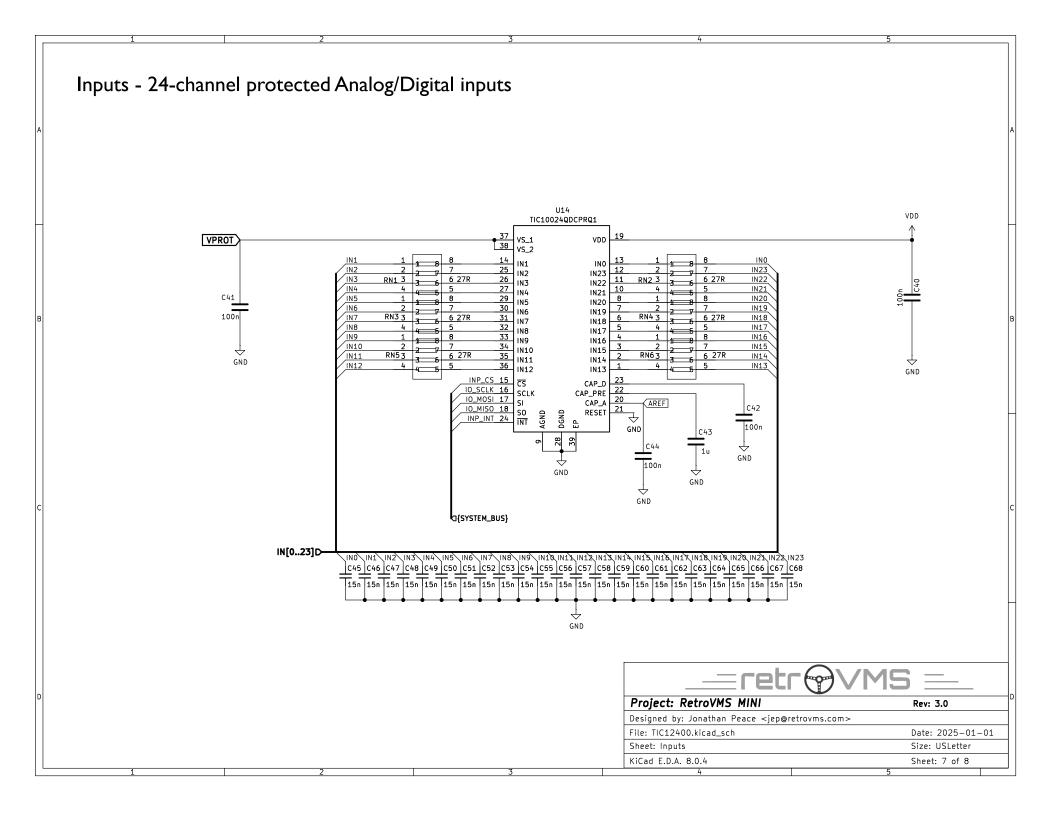


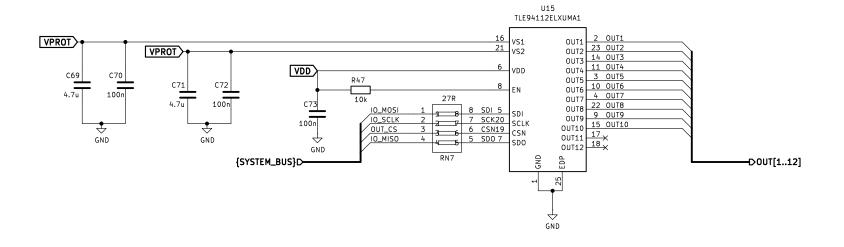
SIM7600X-M2 pinout 4G GSM/GNSS M.2 module socket CONFIG 2=GND 75 74 GND 73 72 71 GND 70 VDD CONFIG 1=GND 69 68 NC 67 RESET#(I)(1.8V) 66 USIM DET(I)(1.8V) ANTCTL3(O)(1.8V) 65 64 GPIO3(IO)(1.8V) ANTCTL2(O)(1.8V) 63 62 GPIO77(IO)(1.8V) ANTCTL1(O)(1.8V) 61 FB1 60 UART TXD(O)(1.8V) ANTCTL0(O)(1.8V) 59 M.2 B-key socket 58 UART RXD(I)(1.8V) . FerriteBead 57 56 UART CTS(O)(1.8V) SHIELD NC 55 54 UART RTS(I)(1.8V) MDM_VBAT_ 74 NC 53 52 72 UART DTR(I)(1.8V) 73 72 73 51 70 71 71 50 GPIO40(IO)(1.8V) C38 × 68 69 67 × NC 49 48 × 66 GPIO41(IO)(1.8V) NC 47 × 64 65 × 65 46 GPIO43(IO)(1.8V) × 62 45 GND 63 1 61 × 44 GPIO44(IO)(1.8V) × 60 43 61 × 58 × 56 59 × 42 12C SDA(IO/OD)(1.8V) NC 41 57 40 I2C_SCL(O/OD)(1.8V) 55 × 55 39 38 NC 53 × 50 × 48 × 46 × 44 NC 37 51 51 51 49 × 36 USIM VDD NC 35 34 USIM DATA 47 33 45 [′] 32 45 USIM_CLK 43 × NC 31 nanoSIM socket 43 30 USIM RST 41 × NC 29 $\frac{\times}{\times}$ 38 39 C6 × C1 SIM_VCC 28 39 PCM CLK(O)(1.8V) 27 GND VCC 37 26 W DISABLE2 N(I)(3.3V) c7 SIM_IO 35 × 34 35 DPR(I)(1.8V) 25 1/0 c3 SIM_CLK 32 33 24 PCM OUT(O)(1.8V) CLK< 33 WoWWAN(OD)(1.8V/3.3V) 23 31 31 × c2 SIM_RST 30 GND RST 22 PCM IN(I)(1.8V) × 28 × 26 29 × 27 CONFIG 0=GND 21 GND 29 20 PCM SYNC(O)(1.8V) 27 Notch × 24 GND 25 × 25 Notch × 22 22 23 × Notch 23 Notch <u>^ 20 </u> 21 × 21 RED_LED Notch WWAN 10 Notch 11 Notch W_DISABLE 8 9 MDM_D-GND 11 MDM_PWR 6 7 MDM_D+ LED1#(OD)(3.3V) 10 USB D-9 W DISABLE1 N(I)(3.3V) MDM_VBAT USB D+ 7 6 FUL CARD POWER OFF#(I)(1.8/3.3V) GND 5 C39 GND GND 3 100n 2 **VBAT** CONFIG 3=NC \uparrow GND {SYSTEM_BUS}D ___retr@\ Project: RetroVMS MINI Rev: 3.0 Designed by: Jonathan Peace <jep@retrovms.com> Date: 2025-01-01 File: modem.kicad_sch Sheet: M.2 WWAN Modem Size: USLetter KiCad E.D.A. 8.0.4 Sheet: 6 of 8



Outputs - I2channel LS/HS/PWM driver

Per datasheet:

Series resistors between the microcontroller and the signal pins of the TLE94112 are recommended if a MOSFET is used to protect VS1 and VS2 pins. These resistors limit the current between the microcontroller and the device during negative transients on VBAT (e.g. ISO/TR 7637 pulse 1)



retr@VMS =	
Project: RetroVMS MINI	Rev: 3.0
Designed by: Jonathan Peace <jep@retro< td=""><td>vms.com></td></jep@retro<>	vms.com>
File: TLE94112.kicad_sch	Date: 2025-01-01
Sheet: Outputs	Size: USLetter
KiCad E.D.A. 8.0.4	Sheet: 8 of 8
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