SMALL 12V to 5V switching REG. Mounted under ESP32 need about 100mA average current at 5V. ESP32 WROOM 32 MODULE. PLUGS IN TO MB ON PINSTRIP This is a male XT60 flanged connector. Goes to vehicle 12V when ignition is on. marked + connector pin is +12V. USB CONNECTOR NOT SHOWN, DIODE ALLOWS USBC ON ESP32 TO ITS ON THE MODULE.

MB AND SOCKETS DO NOT EXTEND PAST THE RUN BOARD WHEN 12V NOT THERE. EVEN IF USB HUB IS UNPOWERED. TOP 5 PINS OF THE MODULE, TO ALLOW BETTER ANTENNA WIFI PERFORMANCE U1 D1 J2 1N4001 ESP32 WROOM M1 32V to 5V switch module Conn_01x02_Pin VIN VIN +12V 1 Vin_p V5V_p D23 30 D22 29 TXD0 28 RXD0 27, D21 26, D19 24, D18 24 23 CS 01 EN VP 3 VN 64 D34 65 D35 6 D32 7 D33 6 D25 GND Vin_gnd VO_GND _☉5 EN * D5 23 C5
D17 22
D16 20 CS2
* D2 19
* D15 18
GND 17
GND 3V3 9 D26 10 D27 11 D14 * SPI_SCLK 12 D12 * D13 D13 GND GND GND 15 VIN VIN 6 0.1 INCH MALE PINS IN FRONT TO DISPLAY WIRING BOARD SPI_MOSI J1 Conn_01x06_Pin 1 __VIN GND SPI_SCLK SPI_MOSI CS CS2 File: dashdisplay_motherboard.kicad_sch Title: DASHDISPLAY MOTHERBOARD Size: A4 Date: 2025-06-19 Rev: 1 KiCad E.D.A. 9.0.2 ld: 1/1