







PER R1, ONLY EXTERNAL INS ARE SUPPORTED VIA J32. E.G. VECTORNAV VN-100, 200, 300, 110, 210, 310 CUSTOM CABLE SOLUTIONS WILL BE REQUIRED +5V_PROT_INS TO EXTERNAL INS
OR OTHER RS-232 DEVICE Conn_01x04 GND +5V_FMU C39 0.1uF U7 MAX3232EETE+ VCC UART4_TX T10UT RS232_TXD × 8 T20UT UART4_RX R10UT R1IN RS232_RXD R20UT R2IN C36 C1+ ٧+ C1-٧-C2+ C38 C40 0.33uF 0.33uF C2-**–** C37 EXP 0.33uF GND GND GND GND RS232 LEVEL SHIFTER Echo MAV, LLC Sheet: /External INS/ File: external_ins_interface.kicad_sch Title: EchoPilot Carrier Size: A4 Date: 2023-06-25 Rev: 1 KiCad E.D.A. kicad 7.0.6-rc1-29-g152dc56df4 ld: 5/7



