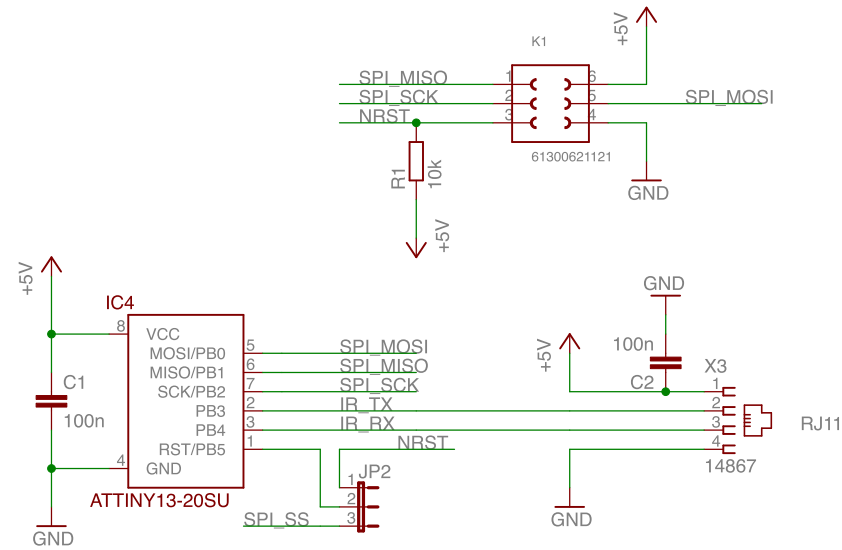


Microcontroller

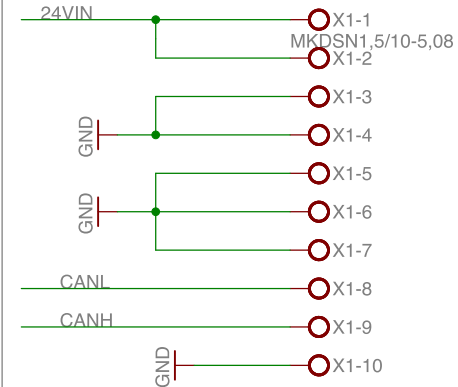


TERMINAL

The diagram illustrates the wiring for a 10-pin terminal block, labeled MKDSN1,5/10-5,08. The pins are arranged in two columns of five. The left column pins are labeled X1-1 through X1-10. The right column pins are labeled X1-1 through X1-10. The wiring is as follows:

- Pin X1-1 (left) is connected to 24VIN.
- Pin X1-2 (left) is connected to GND.
- Pin X1-3 (left) is connected to GND.
- Pin X1-4 (left) is connected to GND.
- Pin X1-5 (left) is connected to GND.
- Pin X1-6 (left) is connected to GND.
- Pin X1-7 (left) is connected to GND.
- Pin X1-8 (left) is connected to CANL.
- Pin X1-9 (left) is connected to CANH.
- Pin X1-10 (left) is connected to GND.

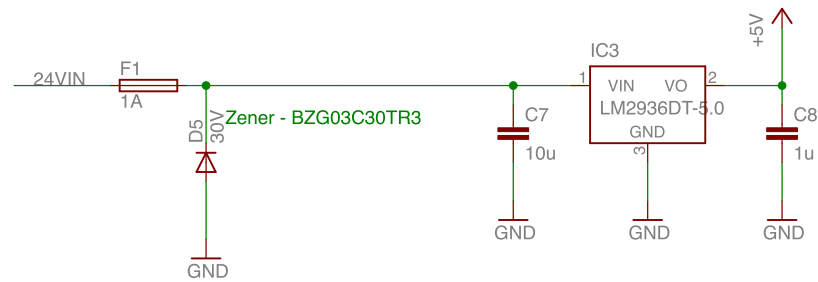
The right column pins (X1-1 to X1-10) are not connected to any external signals.



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POWER SUPPLY

The diagram illustrates a power supply circuit. It begins with a 24V input (VIN) that passes through a fuse (F1, 1A). Following the fuse, the circuit branches: one path goes to ground through a 30V Zener diode (D5, BZG03C30TR3), and the other path continues to a 10uF capacitor (C7) connected to ground. The output of the capacitor feeds the VIN pin of an LM2936DT-5.0 voltage regulator (IC3). The regulator's GND pin is connected to ground, and its VO pin provides the regulated +5V output, which is filtered by a 1uF capacitor (C8) connected to ground.



CAN

The schematic diagram illustrates a CAN bus interface circuit. It features two MCP2551-I/SO transceivers, labeled U\$3 and U\$4, connected to an 8M10AHC49T transceiver (QF2). The circuit includes various passive components such as capacitors (C34, C35, C36, C6) and resistors (R34, R38). The CAN bus signals are CAN_RX, CAN_NRST, CAN_OSC1, CAN_OSC2, CANL, and CANH. The circuit is powered by +5V and GND rails.

U\$3 (MCP2551-I/SO) Pin Connections:

- 18: VDD (+5V)
- 2: RXCAN (CAN_RX)
- 4: ~TX0RTS
- 5: ~TX1RTS
- 6: ~TX2RTS
- 8: CAN_OSC1
- 13: SPI_SCK
- 14: SPI_MOSI
- 16: SPI_SS
- 17: ~CS
- ~RESET
- 9: VSS (GND)
- 1: TXCAN
- 3: CLKOUT/SOF
- 7: OSC2 (CAN_OSC2)
- 10: ~RX1BF
- 11: ~RX0BF
- 12: CAN_INT
- 15: ~INT SO (SPI_MISO)

U\$4 (MCP2551-I/SN) Pin Connections:

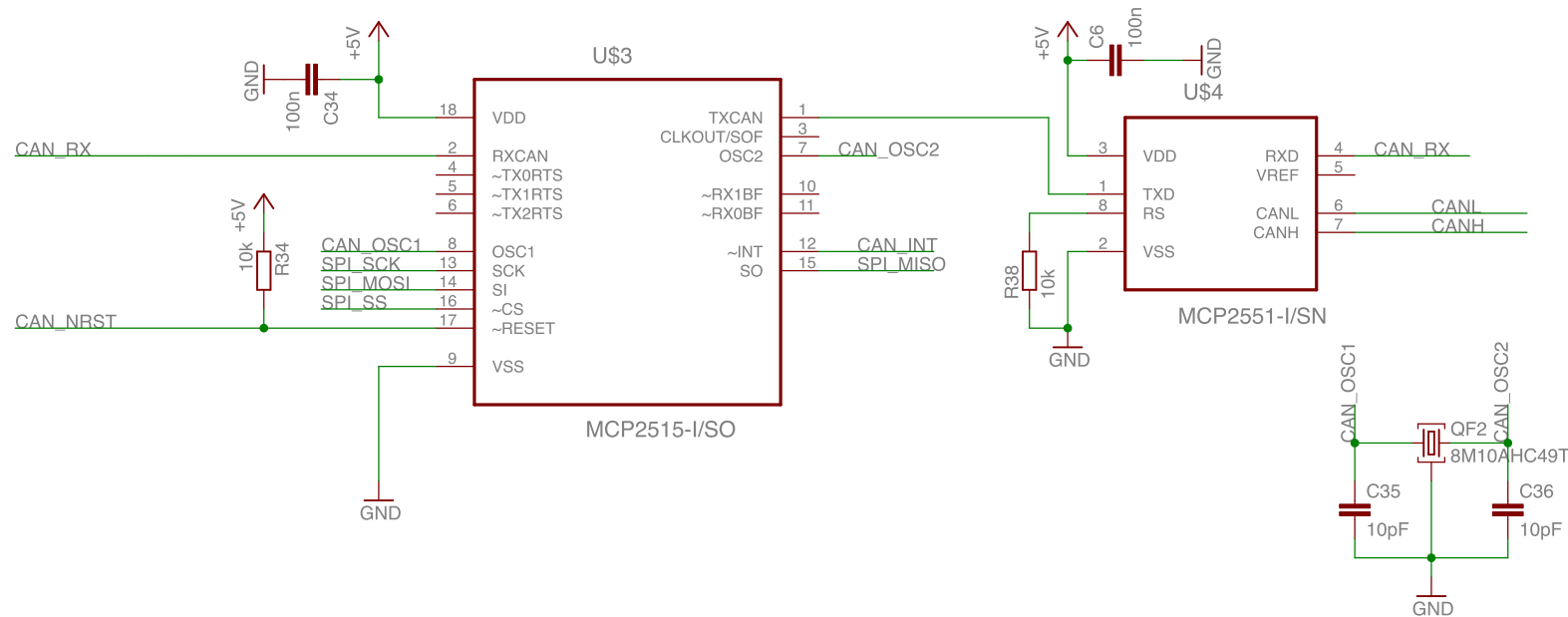
- 3: VDD (+5V)
- 4: RXD (CAN_RX)
- 5: VREF
- 6: CANL
- 7: CANH
- 1: TXD
- 8: RS
- 2: VSS (GND)

QF2 (8M10AHC49T) Pin Connections:

- CAN_OSC1
- CAN_OSC2
- C35: 10pF
- C36: 10pF
- GND

Other Components:

- C34: 100nF
- C6: 100nF
- R34: 10k
- R38: 10k



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