



IO1-LED out (D2)  
IO0-Default button  
IO2-LED out (D1)  
IO16-Relay  
IO4-Dallas sensor  
IO32-PWM  
IO33-RPM

The schematic diagram illustrates the electrical connections for the sensor module. A +3.3V supply is connected to a network of resistors and capacitors. Resistor R9 (2.2K) is connected to DAT1. Resistor R1 (2.2K) is connected to VDD. Resistor R2 (2.2K) is connected to I013. Resistor R3 (2.2K) is connected to I015. Resistor R4 (10K) is connected to DAT2. Resistor R10 (2.2K) is connected to DAT3/CD. Resistor R13 (10R5) is connected to VDD. Resistor R14 (220) is connected to CLK. A 0.1uF capacitor (C12) is connected between the +3.3V supply and ground. The sensor module is labeled J8 and has pins for DAT2, DAT3/CD, CMD, VDD, CLK, VSS, DAT0, DAT1, DET\_A, and DET\_B. A shield is connected to pin 9.

[illegible]

The schematic shows a USB-to-serial converter circuit. A USB connector J1 provides power (VBUS, CC1, CC2) and data (D-, D+, D-) signals. The shield and ground pins are connected to S1 and A1 respectively. The VBUS pin is connected to the VCC pin of the RS485 transceiver U2 (CH340C). The CC1 and CC2 pins are connected to the TXD and RXD pins of U2. The D- and D+ pins are connected to the TXD and RXD pins of the SP0503BAHTG isolator D2. The RXD pin of D2 is connected to the TXD pin of U2. The TXD pin of U2 is connected to the TXD pin of the RS485 driver U1 (RS232). The RXD pin of U1 is connected to the RXD pin of the RS485 receiver U3 (RS232). The TXD and RXD pins of U3 are connected to the TXD and RXD pins of the RS485 transceiver U2. The TXD and RXD pins of U2 are connected to the TXD and RXD pins of the RS485 driver U1. The TXD and RXD pins of U1 are connected to the TXD and RXD pins of the RS485 receiver U3. The TXD and RXD pins of U3 are connected to the TXD and RXD pins of the RS485 transceiver U2.

<b>Rev:</b>
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