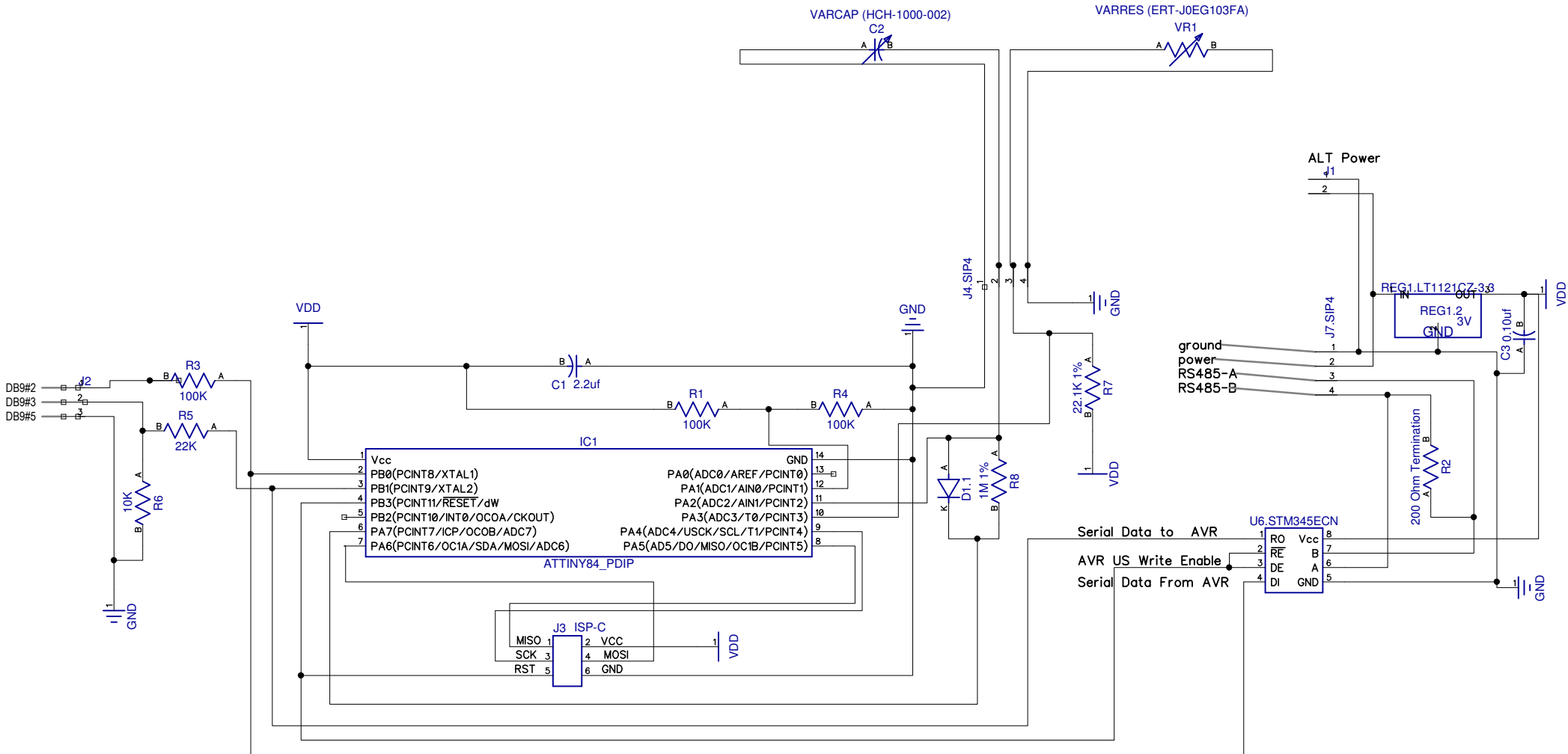


Remote_humid_single_sensor.dch - Tiny84 reads Capacitive humidity sensor using Analog compare also uses thermister for temperature

Reports data via serial or RS485

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U6, J7, R2 can be omitted if RS485 is not needed
J3 ISP-C can be omitted if CPU are pre-programmed
J1, J2, R3, R5, R6 - SIP connector can be omitted if only RS-485 will be used
Serial I/O data can be sent either direct to PC to through RS485 to remote processor
When connecting RS485 do not apply power on J1
5V regulator can be used in lieu of 3.3V but software will need new calibration for the thermister

See: [ert-j0EG103FA-resistance-and-mv-calcs-v2.1.xls](#) for resistance calculations for the thermister

See: [remote_humid_single_sensor.bas](#) for source code

See: [rs485-to-rs232-bridge.pdf](#) for other end of RS485

Addition of RS485 to the AVR Tiny CPU and cap sensor increased power consumption by from 3.5 Ma to 20mA