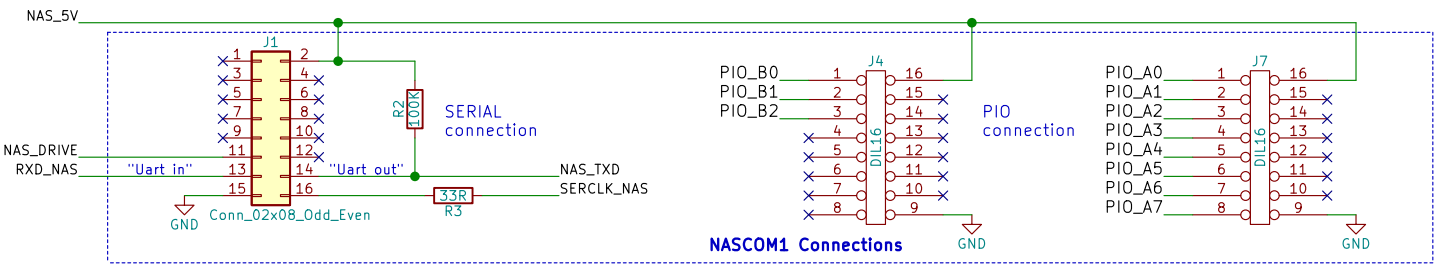
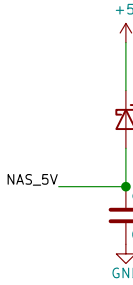
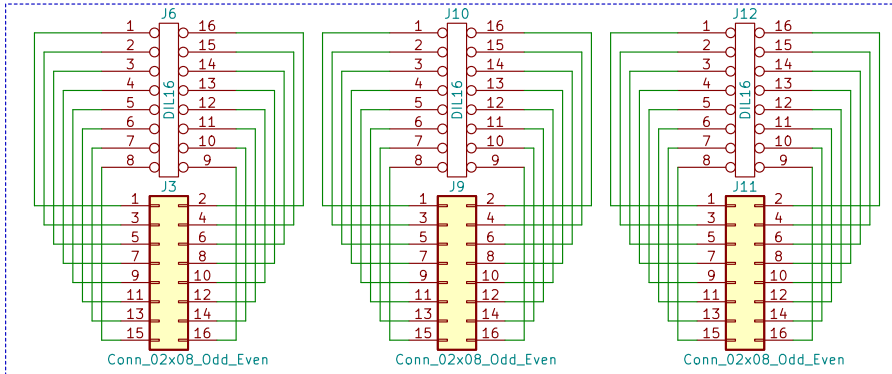
J1 is an IDC connector. Use a 16-pin IDC-IDC ribbon from this board to an IDC/DIL connector and from there straight in to SK2 on the NASCOM1. Add 4 wires to the back of the NASCOM1 to connect to unused pins on SK2 -- see manual. J4, J7 extend below the board as pins and plug directly to SKA and SKB on the NASCOM1.

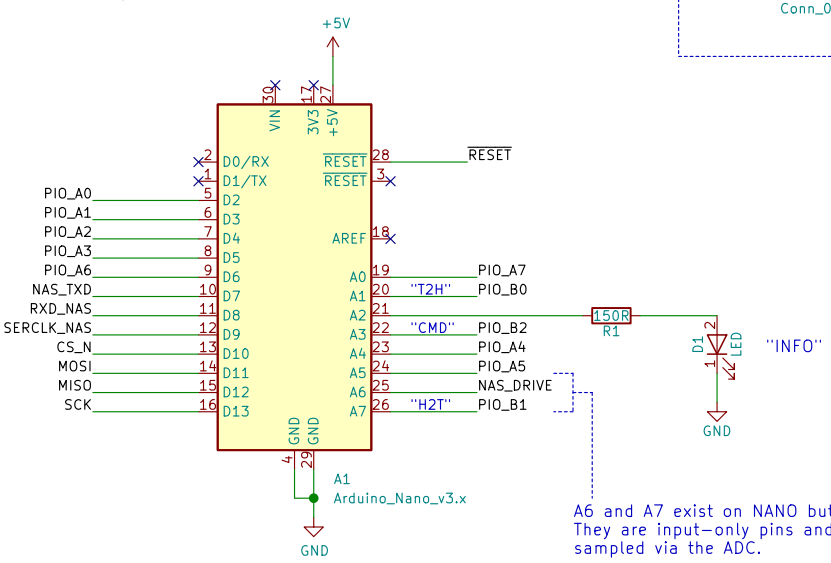




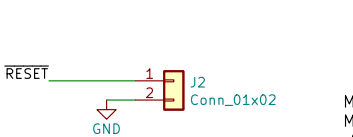
Use-cases:
1/ Board not connected to NASCOM; powered via USB: NAS_5V inactive; board powered from USB.
2/ Board connected to NASCOM, USB disconnected: NAS_5V active; board powered from NASCOM.
3/ Board connected to NASCOM, USB connected: USB and NAS_5V active; board powered from either or both (highest voltage wins). If NASCOM is turned off before USB, this diode prevents the NANO from powering the NASCOM.

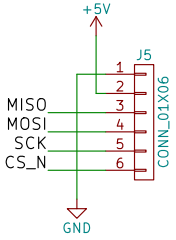


Break-off DIL-to-IDC adaptors.
2 for either end of the keyboard.
1 for the NASCOM1 end of the SERIAL connection.

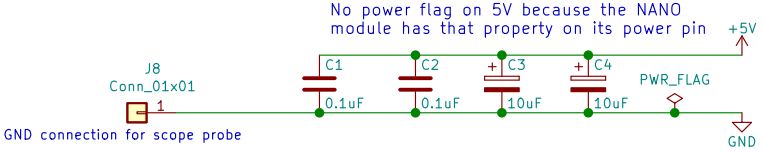


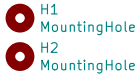
A6 and A7 exist on NANO but not on UNO. They are input-only pins and can only be sampled via the ADC.





MicroSD Card Adaptor with level-shifters and 3V3 regulator





REV A:
REV B: Correct wiring/pin assignment errors. Add D2
REV C: Only schematic change is addition of C5. Change capacitor footprints and rotate connectors.

SD-card Adaptor for direct-attach to NASCOM1 PIO and cable attach to serial interface.

foofoobedoo@gmail.com

Sheet: /
File: nascom_sd_n1.sch

Title:

Size: A4	Date: 26-Jul-2020	**Rev:** REV C
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