9

$\overline{CS}$ *1*

MOSI *2*

VSS *3*

VDD *4*

CLK *5*

VSS *6*

C

MISO *7*

1

B

A

10x10 TriPad stripboard
(copper side)

270R

270R

CLK

DAT

GND

5   *3*

1

4

+5v

PS/2 Socket
(female)

NRF24L01+ Module
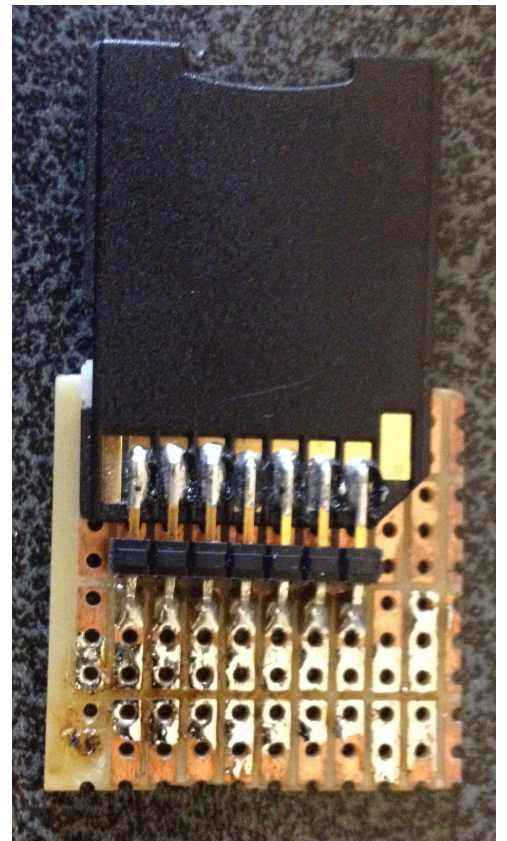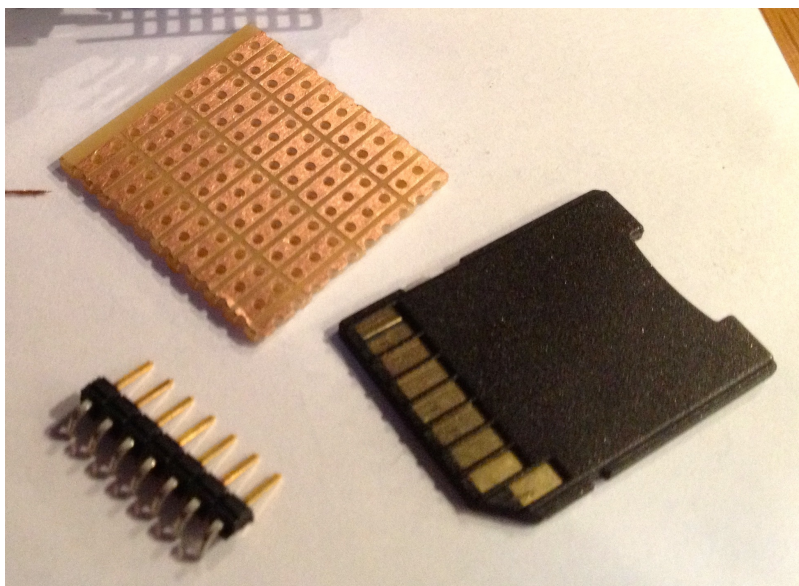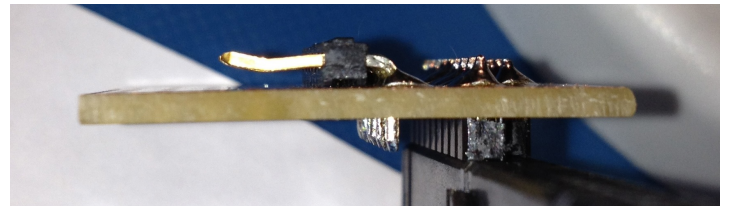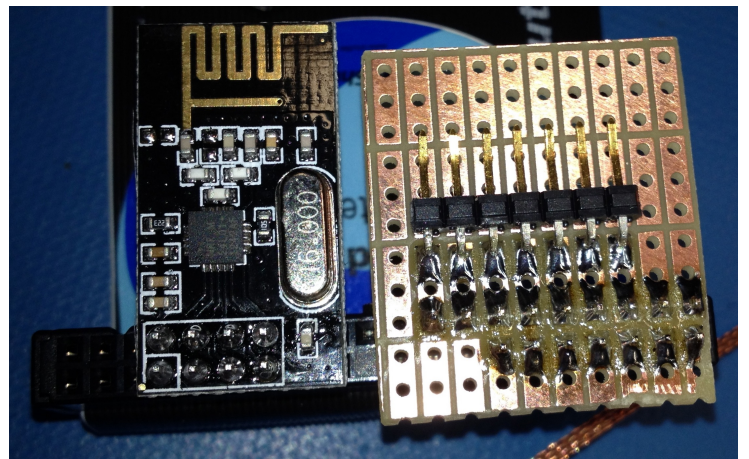(component side)

1

+3.3v   GND

1. Solder 9x1 (A) and 7x1 (B) 0.1" (2.54mm) header pin rows on component side
   (to form male connector to Spartan 3 board 40-pin A2 expansion port)
2. Solder 7x1 (C) right-angle 0.1" (2.54mm) header pin row on copper side to form SD connector
   (bend contact pins, see photo; or solder Micro-SD adaptor in place)
3. Wire GND and 3.3v power to SD-card pins and flying leads to Network module
4. Wire flying lead to PS/2 inline female connector or remove connector from mouse and wire directly
   (series resistors can be mounted on stripboard using spare lower-right corner; or inline)

Project Oberon RISC Computer: Mouse/SD-Card/Network Daughterboard
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Clockwise, from bottom left:

- 10x10 piece of TriPad stripboard, right-angle 0.1" (2.54mm) header pin strip, and Micro-SD adaptor
- straight 0.1" (2.54mm) header pin strip, TriPad stripboard, and Micro-SDHC cards with free adaptor
- boards side-by-side in 40-pin connector with 6 unused 40-pin connector pins to left of network module
- (either) bend right-angle pins to form single-pin contact with SD-Card
- (or) solder Micro-SD adaptor directly onto pins (recommended)

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