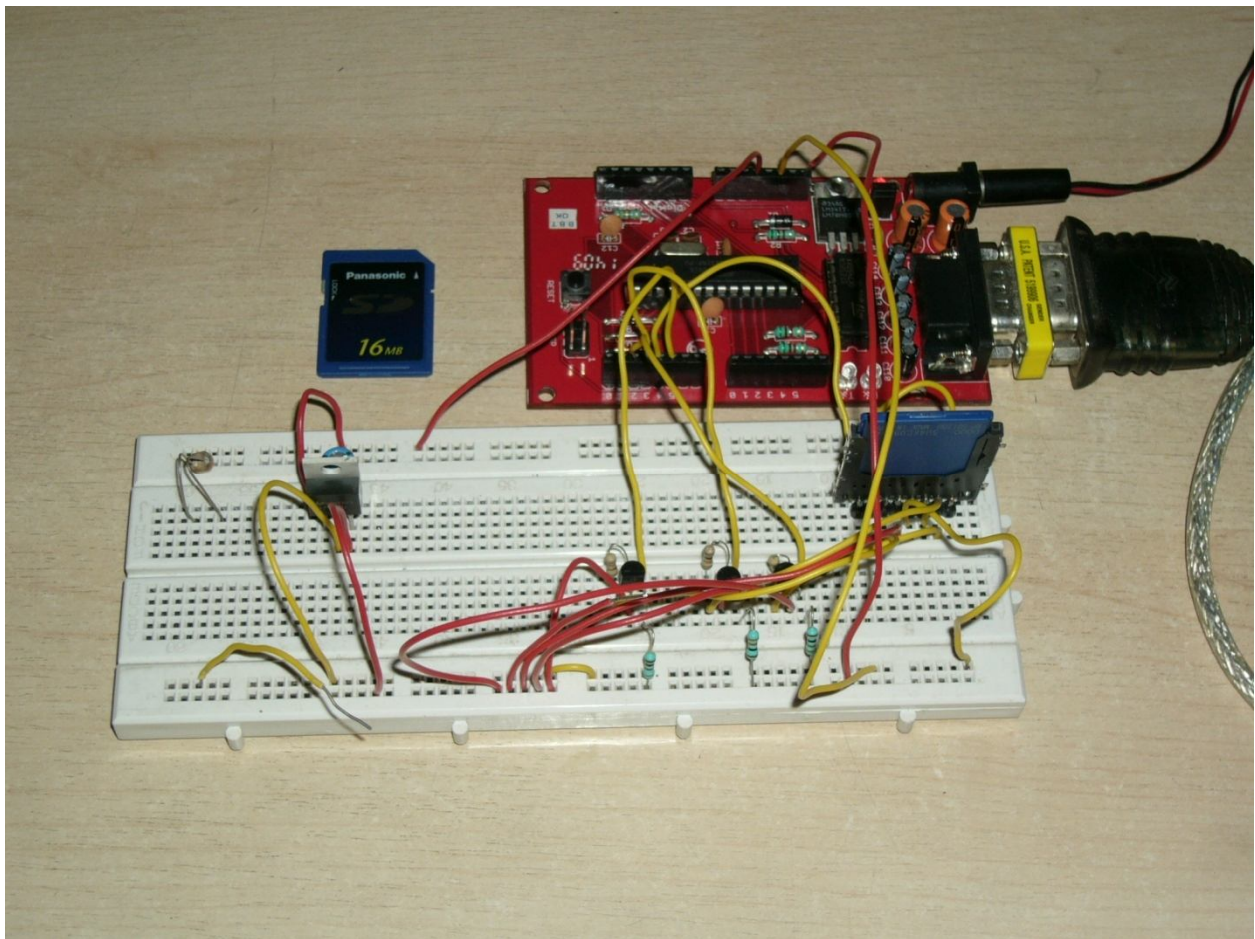
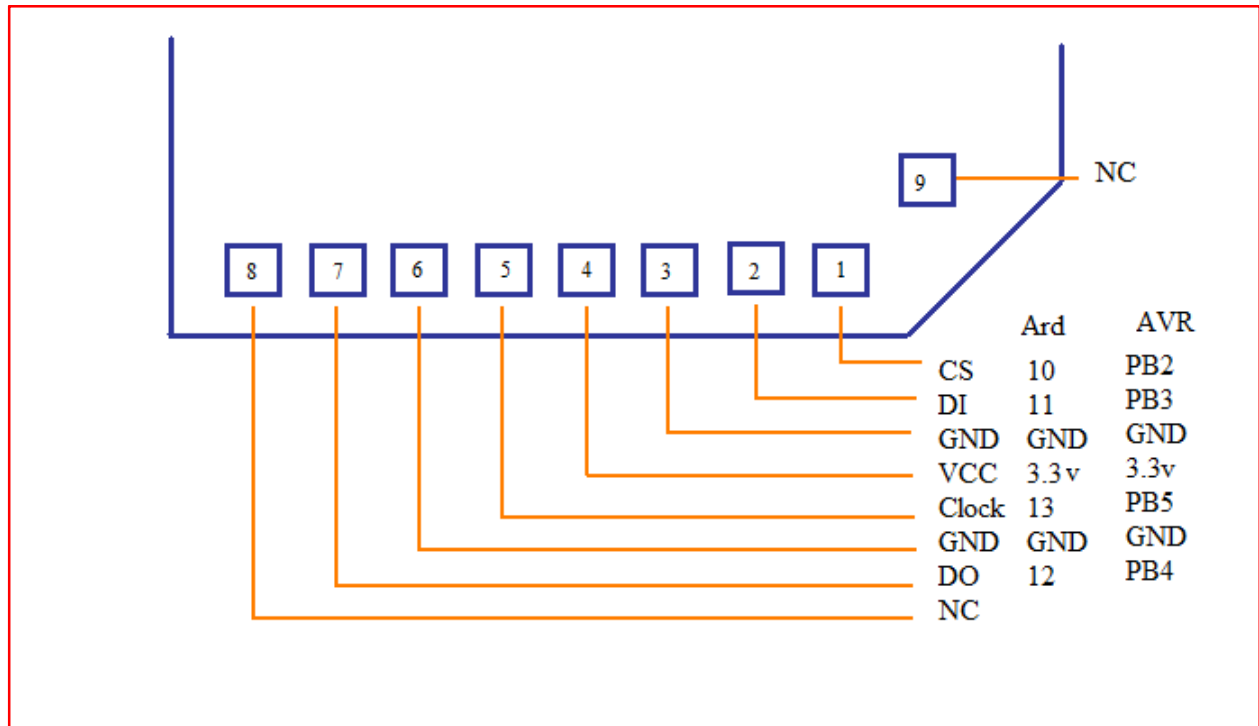


Interfacing Bootboard with SD Card

This is a functional hardware to connect Bootboard to an SD card. The card tested was 128MB Panasonic SD card.

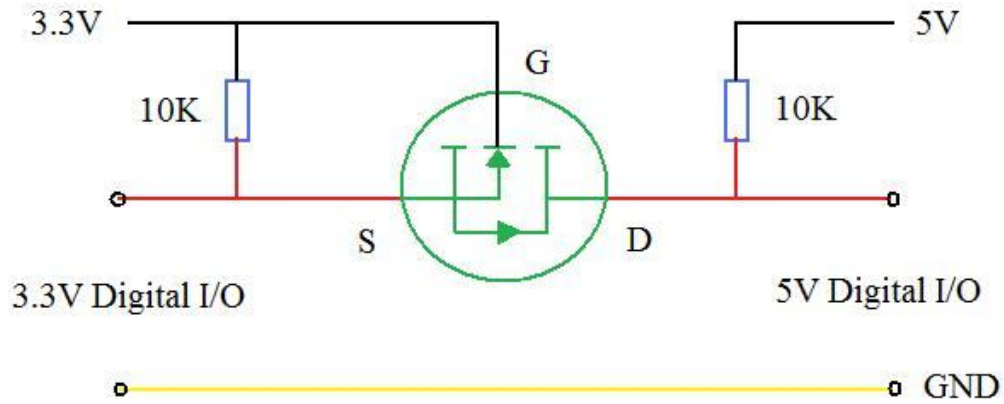


SD card pinout and corresponding Arduino and AVR pins are shown below. AVR uses SPI interface to communicate with SD card.



A regulator like 78M33 can be used to produce 3.3V required for SD card. The Mosfet used during trial was 2N7000. You also need 10K resistors as shown in figure below. The DO pin can be directly connected to AVR MISO as 3.3V is logic 1 for AVR. However all the outputs of AVR (Clock, Chip select and MOSI) must use level converter as shown below. Resistors based level converter are also suggested by some, but not yet used by us.

5V to 3.3V interface Circuit



Note :-

Please set CPOL and CPHA in SPI setting very carefully the default value is 0, 0 but many times configuration 1, 1 is the acceptable one. Read the SD card technical information carefully.

Please contact your seller if you need any further clarification.