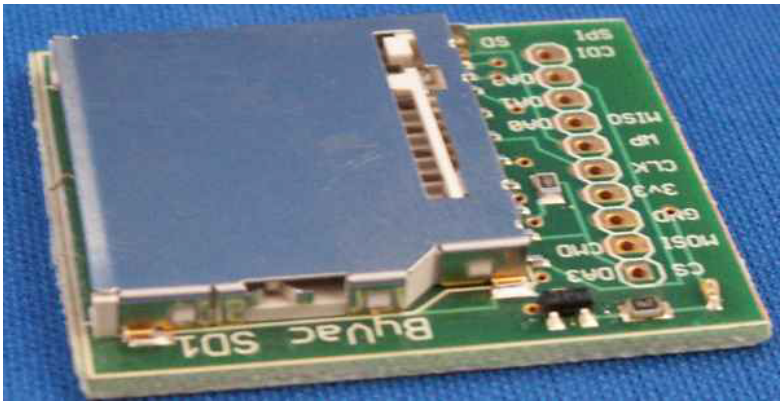
SD Card Holder BV410



BV410

SD-Card Holder

Product specification March 2008 V0.a

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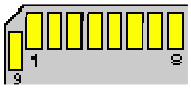
Rev	Change
Mar 2008	Preliminary

1. Introduction

The BV410 is a simple SD (Secure Digital) memory card holder. This is for the full size card not the micro or miniature versions.

The holder also has a LED indicator that is connected to the CS line to indicator in SPI mode that the cad is being accessed.

2. Pin Connections



SD cards have 9 pins, these are brought out to the PCB pin for pin with the exception that pins 3 and 6 are merged and connected to ground.

PCB Pin	SD Pin	Name
1	1	CD/Dat3
2	2	CMD/DI
3	3+6	GND
4	4	+3.3V
5	5	CLK/SCLK
6	n/a	WP
7	7	DAT0
8	8	DAT1
9	9	DAT2
10	n/a	CDi#

3. Activity Indicator

Pin 1 is connected via a 10k resistor to a transistor circuit that will illuminate when this pin goes low. This is useful in SPI mode to indicate that the card has been selected.

4. Write protect & Card Detect

Pin 10 is connected to ground when a card is inserted and is open circuit otherwise. If WP (Write Protect) is off on the card then when the card is inserted, this is also connected to ground. If WP is ON then WP is open circuit.

Card Position	CDI#	WP
No card	H	H
Card in / WP off	L	L
Card in / WP on	H	L

NOTE: A pull up resistor will be required to use this in a logic circuit as all pins 6 and 10 are connected to a switch that simply connects to ground or goes open circuit.

5. Circuit Diagram