PmodSD™
Reference Manual

Revision: December 18, 2009
Note: This document applies to REV B of the board.

Overview

The PmodSD Secure Digital memory card module provides a convenient SD card slot for use with Digilent system and microcontroller boards.

Features include:

- a 2x6 pin header
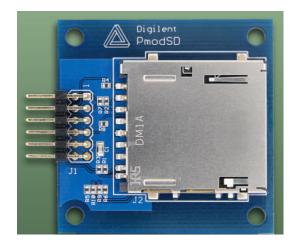- an SD card slot

Functional Description

The PmodSD connects to all communication and power signals from a standard SD card and brings them out to the 2x6 pin header on the board.

The pinout placement on the PmodSD is designed to readily communicate with a Digilent system board via SPI. The SPI interface standard uses four signal lines: SS (slave select), MOSI (master out slave in), MISO (master in slave out), and SCK (serial clock).

SD cards can also be driven in a native mode that also uses the DAT1 and DAT2 signals as well as the DAT0, DAT3, CMD, and CLK signals.

The WP signal can be set by a switch on the SD card to prevent the host from writing or erasing data on the card. The CD signal can be used by the host to indicate that a card is in the SD slot and is detectable.

For more information on the necessary commands to communicate with an SD card, see the card's data sheet.