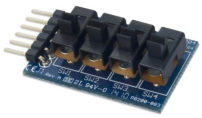

DIGILENT PmodSWT 4 User Slide Switches User Manual

Contents

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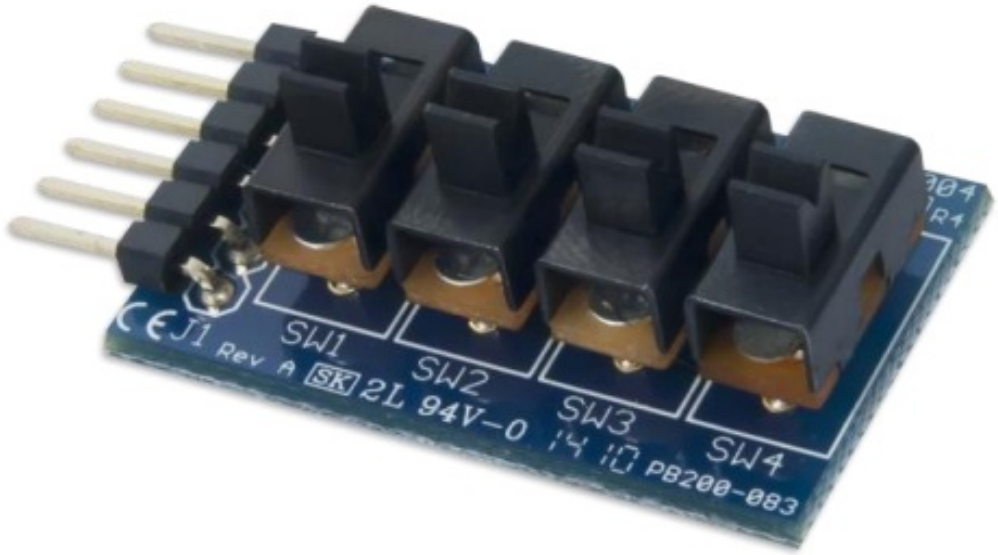


Product Information

PmodSWTTM –

The PmodSWTTM is a module that provides users with four slide switches for up to 16 different binary logic inputs for the attached system board. It is designed to be interfaced with the host board via the GPIO protocol. The module does not have any integrated circuits, allowing it to work with any voltage range compatible with the system board.

Specifications

- Functional Description: The PmodSWT can be used as a set of on and off switches or as a set of static binary inputs.
- Pin Signal Description:
  - SWT1: Switch 1 input
  - SWT2: Switch 2 input
  - SWT3: Switch 3 input
  - SWT4: Switch 4 input
  - GND: Power Supply Ground
  - VCC: Positive Power Supply
- Physical Dimensions:
  - Pins on pin header spaced 100 mil apart
  - PCB length: 1.3 inches on sides parallel to pin header, 0.8 inches on sides perpendicular to pin header

Product Usage Instructions

To use the PmodSWTTM, follow these steps:

1. Connect the PmodSWTTM to the host board using the GPIO protocol.
2. Ensure that the voltage range used on the PmodSWTTM is compatible with your system board.
3. Utilize the four slide switches as desired:
   - To use them as on and off switches, turn the switches to the desired position. The respective pins will be

at logic level high voltage when the switch is on and logic level low voltage when the switch is off.
- To use them as static binary inputs, set the switches to the desired binary values. The respective pins will represent the binary values when the system board reads them.

Overview

The PmodSWT provides users with four slides switches for up to 16 different binary logic inputs to for the attached system board.

Features include:

- 4 slide switches
- Add user input to host board or project
- Static binary logic input
- Small PCB size for flexible designs 1.3 in × 0.8 in (3.3 cm × 2.0 cm)
- 6-pin Pmod port with GPIO interface
- Follows Digilent Pmod Interface Specification Type 1

Functional Description

The PmodSWT utilizes four slide switches that users can use as a set of on and off switches or as a set of static binary inputs.

Interfacing with the Pmod

The Pmod communicates with the host board via the GPIO protocol. When a switch is turned to the “on” position, its respective pin will be at the logic level high voltage and when a switch is off, the pin will be a logic level low voltage.

Pin	Signal	Description
1	SWT1	Switch 1 input
2	SWT2	Switch 2 input
3	SWT3	Switch 3 input
4	SWT4	Switch 4 input
5	GND	Power Supply Ground
6	VCC	Positive Power Supply

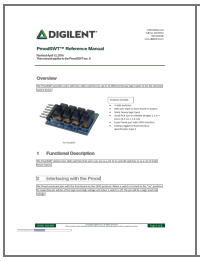
Table 1. Pinout description table.

There are no integrated circuits on the PmodSWT, so any voltage range that is usable with your system board can be used on the PmodSWT.

Physical Dimensions

The pins on the pin header are spaced 100 mil apart. The PCB is 1.3 inches long on the sides parallel to the pins on the pin header and 0.8 inches long on the sides perpendicular to the pin header.

Documents / Resources

	**DIGILENT PmodSWT 4 User Slide Switches** [pdf] User Manual PmodSWT rev. A, Pmod SWT 4 User Slide Switches, PmodSWT, 4 User Slide Switches, Pmod SWT 4 User Slide Switches, Slide Switches, Switches

References

- **Digilent â€“ Start Smart, Build Brilliant.**