

Digilent PmodCON4™ Reference Manual

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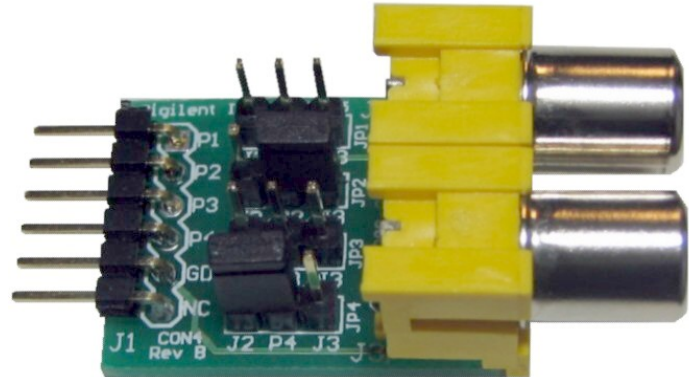
Overview

The Digilent PmodCON4 peripheral module (the CON4™) connects a 6-pin header to two RCA audio jacks which can be used to connect audio equipment.

The CON4 is ideal for adding an RCA audio connection to an embedded control system or a programmable logic circuit board.

Features include:

- a 6-pin header connector
- two RCA audio jacks
- flexible configuration of header pins and RCA audio jacks
- small form factor (0.80 X 1.10).



Functional Description

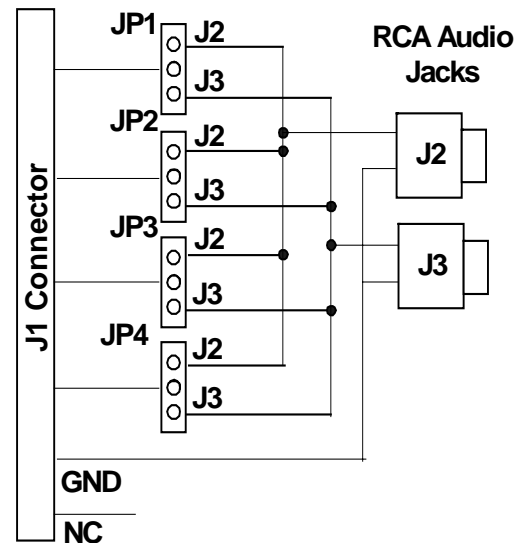
Pins 1 through 4 can connect to either of the RCA audio jacks. To connect the 6-pin header to the two RCA audio jacks, place the shorting blocks on two of the four jumpers, one using a J2 pin and one using a J3 pin.

For example, to connect Pin 1 to the J2 RCA audio jack, place the shorting block on the first jumper, on the middle pin, and the J2 pin.

Next, to connect the J3 RCA audio jack, choose another jumper and use a shorting block to connect the middle pin and the J3 pin.

Pin GD is ground and pin NC is not used. Do not use more than two shorting blocks or connect more than one pin to a single RCA jack as this can damage the system board.

The CON4 has a 6-pin header for easy connection to a Digilent system board or Pmod™ module. Since RCA jacks are normally used to connect to equipment that



CON4 Circuit Diagram

produces or receives analog signals, the CON4 will normally be connected to a Digilent A/D or D/A converter module, such as the PmodAD1™ or PmodDA1™. The CON4 is designed to plug directly into these modules.

Some Digilent microcontroller-based system boards, such as the Cerebot™, have built-in A/D converters, and the CON4 can be connected directly, or via a 6-wire cable, to the appropriate Pmod interface connector on the system board.

For more information see www.digilentinc.com.