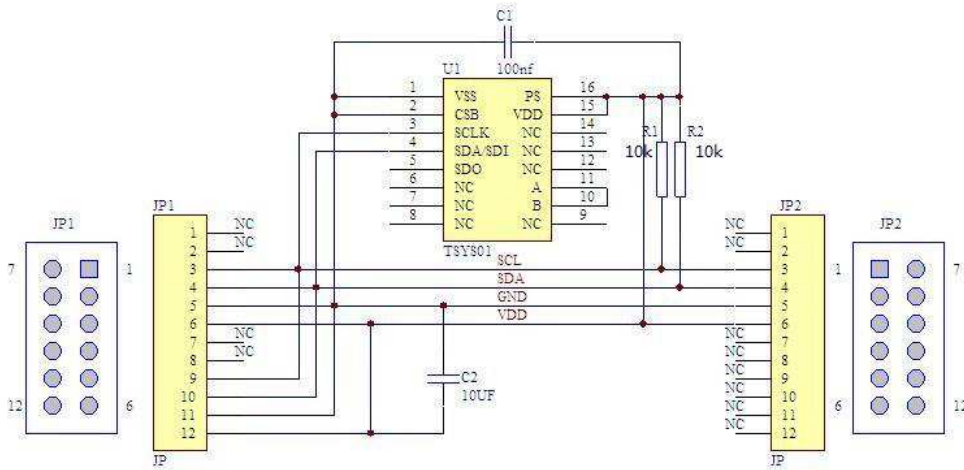




Schematic



Connector Pin Assignments (I<sup>2</sup>C Communications)

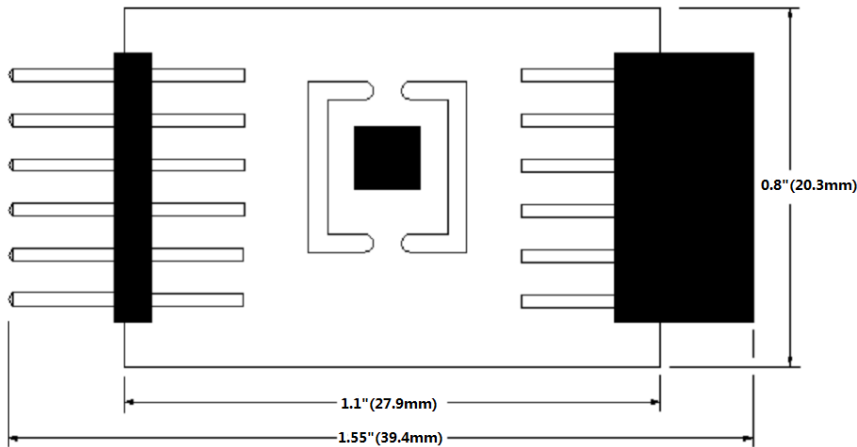
System Plug (Table 1)

Connector J1		
Pin No.	Signal	Description
1	N/C	Not Connected
2	N/C	Not Connected
3	SCL	I <sup>2</sup> C Serial Clock
4	SDA	I <sup>2</sup> C Serial Data
5	GND	Ground
6	Vdd	Power Supply
7	N/C	Not Connected
8	N/C	Not Connected
9	SCL	I <sup>2</sup> C Serial Clock
10	SDA	I <sup>2</sup> C Serial Data
11	GND	Ground
12	Vdd	Power Supply

Expansion Socket (Table 2)

Connector J2		
Pin No.	Signal	Description
1	N/C	Not Connected
2	N/C	Not Connected
3	SCL	I <sup>2</sup> C Serial Clock
4	SDA	I <sup>2</sup> C Serial Data
5	GND	Ground
6	Vdd	Power Supply
7	N/C	Not Connected
8	N/C	Not Connected
9	N/C	Not Connected
10	N/C	Not Connected
11	N/C	Not Connected
12	N/C	Not Connected

## Dimensions



## Detailed Description

### I<sup>2</sup>C Interface

The peripheral module can interface to the host in one of two ways. It can plug directly into a Digilent Pmod™ compatible port (configured for I<sup>2</sup>C) through connector J1, or to other I<sup>2</sup>C boards that have a Digilent Pmod™ compatible expansion connector.

### I<sup>2</sup>C Interface (Daisy Chaining Modules)

Connector J1 provides connection of the module to the Digilent Pmod™ host. The pin assignments and functions adhere to the Digilent Pmod™ standard as shown in Table 1. The J2 connector allows additional Digilent Pmod™ modules to be connected in a daisy-chain fashion. See Table 2.

### External Control Signals

The module operates as an I<sup>2</sup>C slave using the standard 2 wire I<sup>2</sup>C connection scheme. The module is controlled by the host (through the Digilent Pmod™ connector). In cases where one or more of the SCL and SDA signals are driven from an external source, resistors R1, R2 provide pull-up. However, this also increases the apparent load to the external driving source. If the external source is incapable of driving these loads, they could be removed from the board.

Digilent Pmod™ is a trademark.

## Ordering Information

Description	Part Number
MEAS TSYS01 PERIPHERAL MODULE	DPP201Z000

## Reference Material

- Detailed information regarding operation of the IC:  
MEAS TSYS01 Datasheet
- Detailed information regarding the single port mother board driver:  
MEAS TSYS01 for MicroZed Driver
- Complete software sensor evaluation kit for the single port mother board:  
MEAS TSYS01 for MicroZed Software
- Detailed information regarding the multiple port mother board driver:  
MEAS TSYS01 for ZedBoard Driver
- Complete software sensor evaluation kit for multiple port mother board:  
MEAS TSYS01 for ZedBoard Software

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