

US082-ZSCALINTRPEVZ

Interposer Board

Description

The US082-ZSCALINTRPEVZ interposer board provides an economical method to calibrate the Pmod capacitive sensor. Using the interposer board ensures reliable connection, in contrast to using jumper wire.

The US082-ZSCALINTRPEVZ feature the Pmod connector on one side and 10 pin dual row socket header to the other side to plug to ZSSC3230EVB board, providing flexibility to rapidly calibrate Pmod sensor board.

Board Contents

- US082-ZSCALINTRPEVZ Interposer Board

Features

- Route I²C signal from ZSSC3230EVB board to standard Pmod pinout.

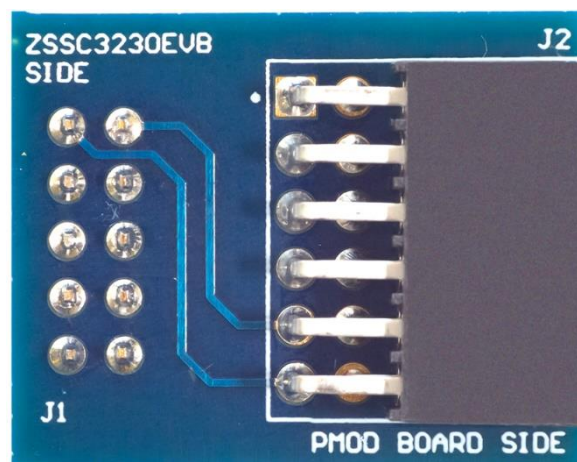


Figure 1. US082-ZSCALINTRPEVZ Interposer Board

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1. Functional Description

1.1 Setup and Configuration

The US082-ZSCALINTRPEVZ interposer board is used with the ZSSC3230EVB kits to calibrate capacitive sensor Pmod.

Table 1. Required Equipment and Board for Calibration

Demo Board	Description
ZSSC3230EVB Kit	Used for communication between user computer and US082-ZSSC3230EVZ
US082-ZSSC3230EVZ	Pmod board with ZSSC3230 capacitive sensor signal conditioner IC
US082-ZSCALINTRPEVZ	Interposer Board

Equipment	Description
Capacitive Sensor	For calibration and testing
Calibration Standard (Optional)	Provide reference stimulus signal for calibration

1.2 Kit Hardware Connections

Complete the following procedure to set up the kit as shown in the figure.

1. Plug the US082-ZSCALINTRPEVZ board into the ZSSC3230EVB board kit connector, P3.
2. Plug the US082-ZSSC3230EVZ Pmod board into the other side of the US082-ZSCALINTRPEVZ connector, J2.
3. The system is now ready for use.

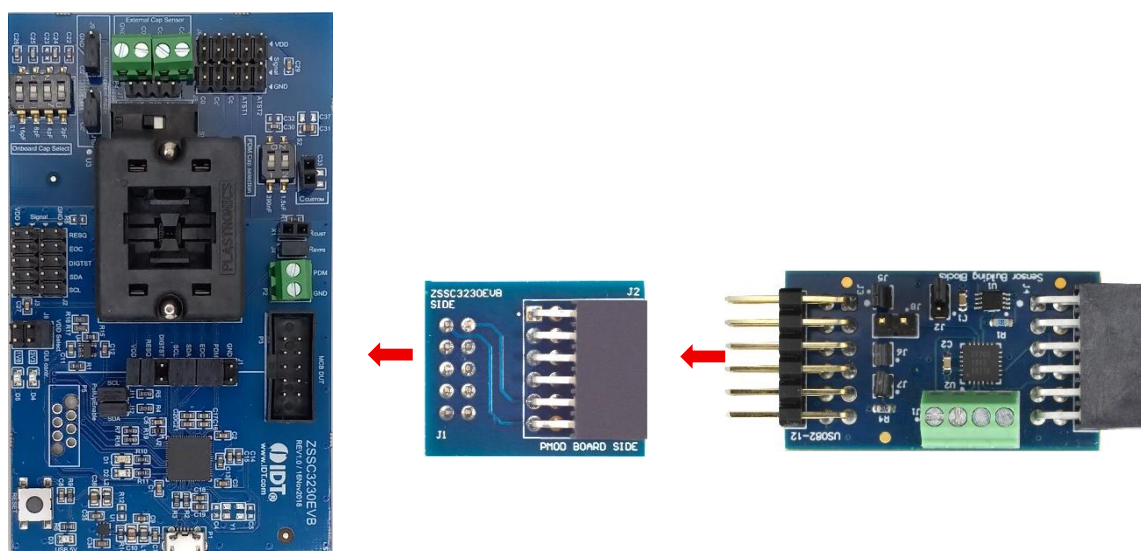


Figure 2. US082-ZSCALINTRPEVZ Placed between ZSSC3230EVB and US082-ZSSC3230EVZ

2. Board Design

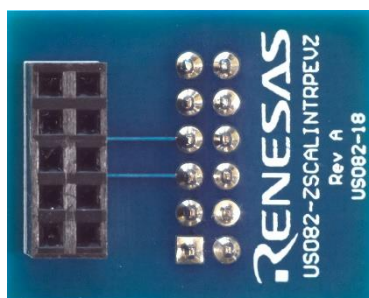


Figure 3. US082-ZSCALINTRPEVZ Board (Top)

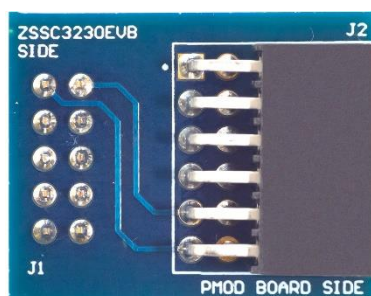


Figure 4. US082-ZSCALINTRPEVZ Board (Bottom)

Table 1. PMOD Pin Mapping on US082-ZSCALINTRPEVZ

Pin	ZSSC3230EVB Side (10 Pin)	US082-SSC3230EVZ Side (12 Pin)
1	GND	NC
2	VDD	NC
3	NC	SCL
4	SCL	SDA
5	NC	GND
6	SDA	VDD
7	NC	NC
8	NC	NC
9	NC	NC
10	NC	NC
11		GND
12		VDD

2.1 Schematic Diagrams

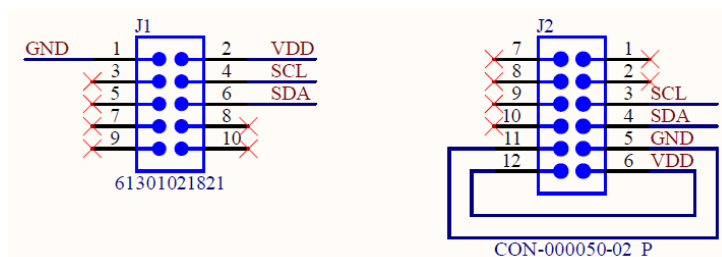


Figure 5. US082-ZSCALINTRPEVZ Application Schematic

2.2 Bill of Materials

Qty	Reference	Description	Part Number
1	J1	CONN HEADER 10POS 2ROW VERTICAL TH	61301021821
1	J2	CONN SOCKET 12POS 2ROW HORINZONTAL TH	SSW-106-02-F-D-RA

2.3 Board Layout

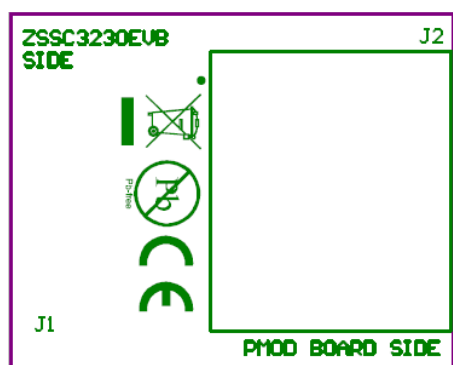


Figure 6. Silkscreen Top

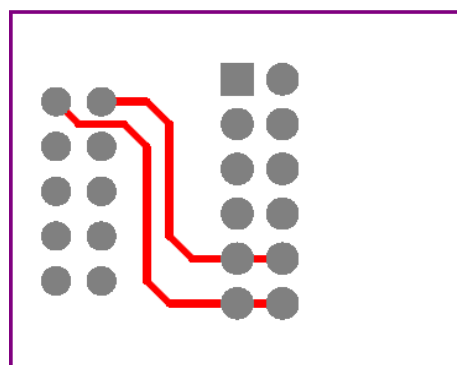


Figure 7. Copper Top



Figure 8. Silkscreen Bottom

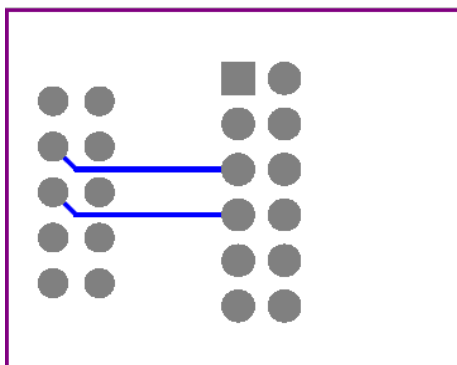


Figure 9. Copper Bottom

3. Ordering Information

Part Number	Description
US082-ZSCALINTRPEVZ	Interposer Board

4. Revision History

Revision	Date	Description
1.00	Jun 11, 2025	Initial release.

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