

## Data Sheet Evaluation Breakout Board for EPSON IMU

### OVERVIEW

This Evaluation Breakout Board is designed to convert the 0.4mm pitch connector of the Epson IMU to a 2.54mm pitch connector. The Evaluation Breakout Board simplifies the initial evaluation and rapid testing of the Epson IMU products.

### OUTLINE DIMENSIONS

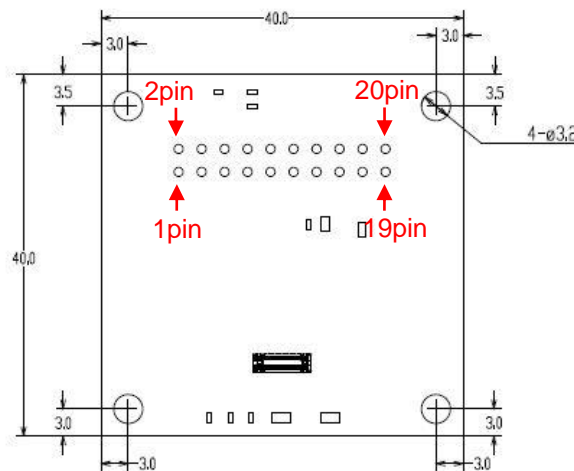


Fig1. Board Outline Dimensions (millimeters)

### PIN FUNCTION

Table1. Though-hole Pinout Descriptions

Pin No.	Mnemonic	Type <sup>*1</sup>	Description
2	SDI	I	SPI Data Input <sup>*2</sup>
4	SCLK	I	SPI Serial Clock <sup>*2</sup>
6	SDO	O	SPI Data Output <sup>*2</sup>
8	/CS	I	SPI Chip Select <sup>*2</sup> (10kΩ Pull-Up recommended)
7	-	N/A	Pull-Up (10 k Ω)
9,11,19	-	N/A	DoNotConnect
10	SIN	I	UART Data Input <sup>*2</sup>
12	SOUT	O	UART Data Output <sup>*2</sup>
14	DRDY (GPIO1)	I/O	DataReady (General Purpose I/O1)
16	EXT (GPIO2)	I/O	External Trigger Sync or External Counter Reset (General Purpose I/O2)
18	/RST	I	Reset <sup>*3</sup>
15,17	VCC	S	Power Supply 3.3V
1,3,5,13,20	GND	S	Ground

\*1) Pin Type I: Input, O: Output, I/O: Input/Output, S: Supply, N/A: Not Applicable

\*2) Connect either SPI or UART but not both. Connecting both SPI and UART at the same time may result in malfunction of the device. Regarding unused pin, please connect /CS pin to VCC and all other unused input pins to GROUND.

\*3) If the /RST pin is not used, keep the pin at High (VCC) voltage level.

Note) All input pins have weak pull up resistors inside the IMU.

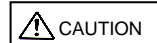
# M-V34EV011

## ■ SUPPORTED DEVICES

Table2. Supported Devices

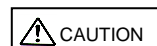
Evaluation Breakout Board	Supported IMU
M-V34EV011	M-V340PD

## ■ PRODUCT NUMBER AND ORDER INFORMATION



Please order using the following number.

Order Number	Product Number	Comment
E92E603011	M-V34EV011	Evaluation Breakout Board



### Evaluation Board/Kit and Development Tool Important Notice

1. This evaluation board/kit or development tool is designed for engineering evaluation, demonstration, or development purposes only. Do not use it for any other purposes. The conformance test for this product in accordance with European EMC regulations and United States FCC regulations has not been conducted.
2. This evaluation board/kit or development tool is intended for use by electronics engineers and is not a consumer product. Malfunction by the electrical noise may result from usage depending on your environment. The user should ensure it is used in a safe and proper manner.
3. Seiko Epson does not assume any responsibility or liability of any kind from damage and/or fire caused by the use of this evaluation board/kit or development tool. The user should cease using this evaluation board/kit or development tool if any abnormal issue occurs even during proper and safe usage.
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5. The parts used for this evaluation board/kit or development tool may be changed without notice.
6. Do not allow heaters, human body or metal parts to contact the non-insulated parts of this evaluation board/kit or development tool.
7. Do not allow the human body or metal parts to contact any openings of this evaluation board/kit or development tool.
8. Do not allow excessive stress on mounted components, board wiring, and electric wire of this evaluation board/kit or development tool.
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