Document Information

Version	Date	Section	Changes
1.0	July 28, 2025	-	Initial

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1 OVERVIEW

EVAL HI71 is a simple evaluation board that enables rapid performance evaluation of the HI71 series attitude sensors. The EVAL HI71 is equipped with two sets of Molex connectors (J1 and J2), which can communicate with the host computer via the accompanying USB-to-Molex cable or OPEN cable. Additionally, the EVAL HI71 must be rigidly fixed to the user's equipment.

2 Model

2.1 Model Information

Table 1: Model Information

Part Number	Name	Description	Note
EVAL HI71T2-MI0-000	HI71T2-MI0 Evaluation Board		
EVAL HI71T4-MI0-000	HI71T4-MI0 Evaluation Board		
EVAL HI71M4-MI0-000	HI71M4-MI0 Evaluation Board		

2.2 Contact us

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3 Related Documents

1. *HI71 Data Sheet*
2. *Command and Programing Manual*
3. *3D Step*
4. *GUI and Drivers*

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4 SPECIFICATIONS

4.1 Normal Conditions

Table 2: Absolute Maximum Ratings

Parameters	Limit	Comment
Mechanical Shock	2000g	Duration <1ms
Storage Temperature	-40℃-85℃	
ESD HBM	15KV	JEDEC/ESDA JS-001
Input Voltage VDD	4.5-6.5V	
IO To GND	-0.3-3.3V	

4.2 Dimensions and Pin Definitions

All Dimensions in mm units.

4.2.1 Dimensions

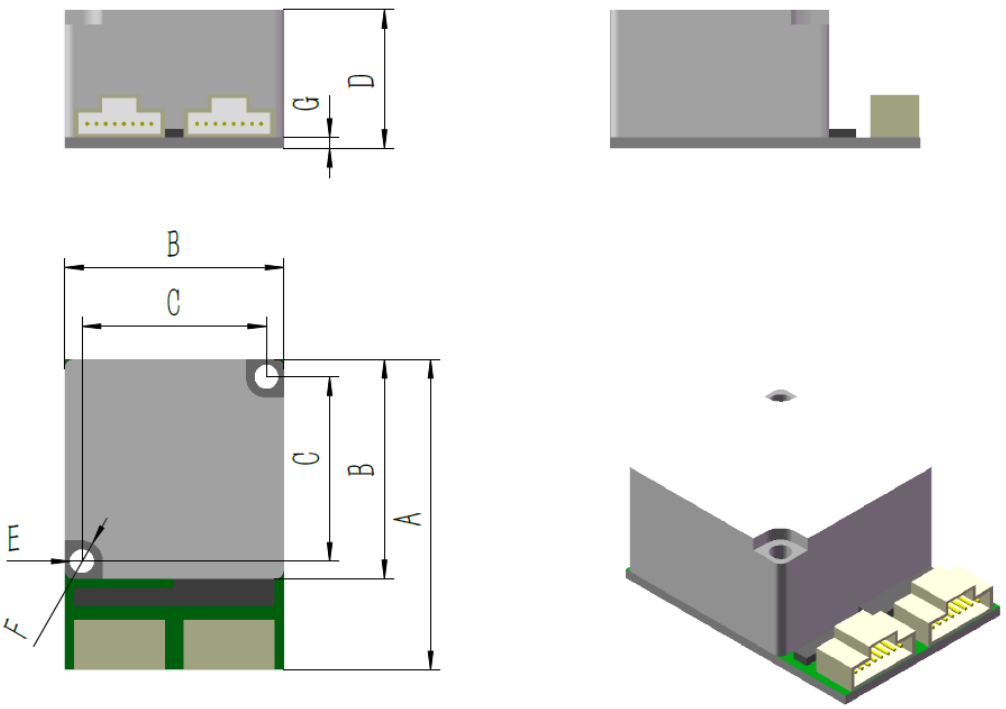

Figure1: EVAL HI71 Mechanical Dimension

Symbol	Min(mm)	Typ(mm)	Max(mm)
A	33.7	34	34.3
B	23.9	24	24.1
C	20.1	20.2	20.3
D	15	15.2	15.4
E	Φ2.5	Φ2.6	Φ2.7
F	R2.2	R2.3	R2.4
G	1.1	1.2	1.3

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4.2.2 EVAL HI71 Pin Definitions

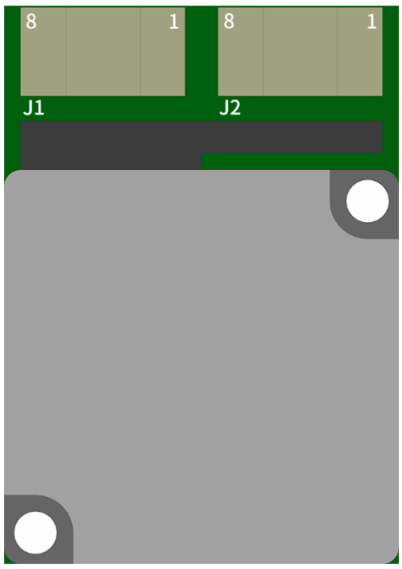

Table 3: EVAL HI71 Pin Functional Descriptions

Pin Number	Pin Name J1	Pin Name J2	Note
1	UART1_TXD	UART2_TXD	
2	UART1_RXD	UART2_RXD	
3	GND		
4	GND		
5,	IO1(SYNC_IN/PPS)	GND	
6	IO2(SYNC_OUT)	GND	
7	GND	UART3_RX	
8	VDD 5.0V	UART3_TX	

Note1: Default UART1

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5 Cable

5.1 Molex A (501330-0800) to OPEN

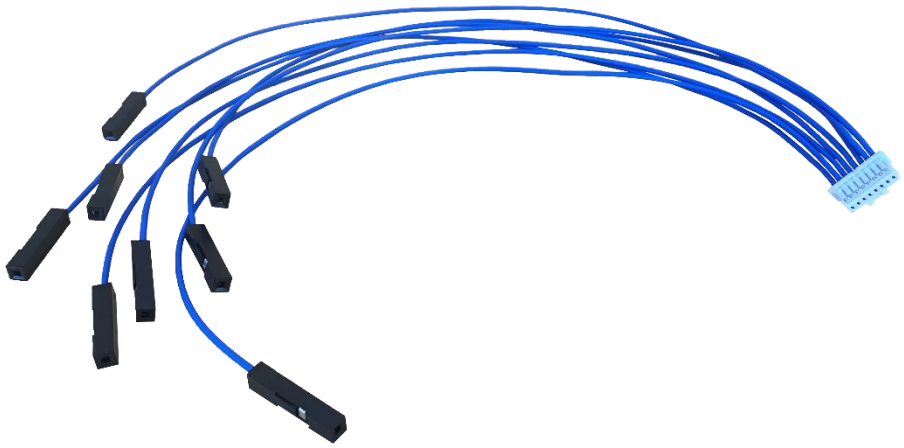

Figure2: 501330-0800 to OPEN

5.2 USB to Molex A(501330-0800)

Figure3: USB to Molex A(501330-0800)

Note1: This cable is applicable to the EVAL HI71XX series products. It has a length of 1 meter and an built-in USB-to-UART (TTL) module.

Note2: Download link for the cable driver:CP210x USB to UART Bridge VCP Drivers - Silicon Labs (silabs.com)

Note3: This cable can only be connected to J1

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