



1 OVERVIEW

EVAL-HI12XX-MI1-100 is a simple serial evaluation board that allows quick performance evaluation of the HI12 series attitude sensors. EVAL-HI12XX-MI1-100 has two sets of Molex connectors J1 and J2, which can communicate with the host through the matching USB to Molex cable or OPEN cable harness, and provides 3 M2.5 screw holes for rigidly fixing the product to the user's device.

2 MODEL

2.1 Model Information

Table 1: Model information

Part Number	Name	Description	Note
EVAL-HI12H3-MI1-100	HI12H3-MI1-100 Evaluation Board		

2.2 Contact us

1. Email: overseas1@hipnuc.com
2. Website: www.hipnuc.com

3 Related Documents

1. *HI12 Data Sheet*
2. *Instruction and Programming Manual*
3. *Step Files*
4. *GUI and Reference Examples*

4 SPECIFICATIONS

4.1 Normal Operation Conditions

Table 2: Absolute maximum values

Parameters	Limit	Comment
Mechanical Shock	2000g	Duration <1ms
Storage Temperature	-40°C-85°C	
ESD HBM	15KV	JEDEC/ESDA JS-001
Input Voltage	3.6-6.5V	
IO To GND	-0.3-3.3V	

4.2 Dimensions and Pin Definitions

All Dimensions in mm units.

4.2.1 Dimensions

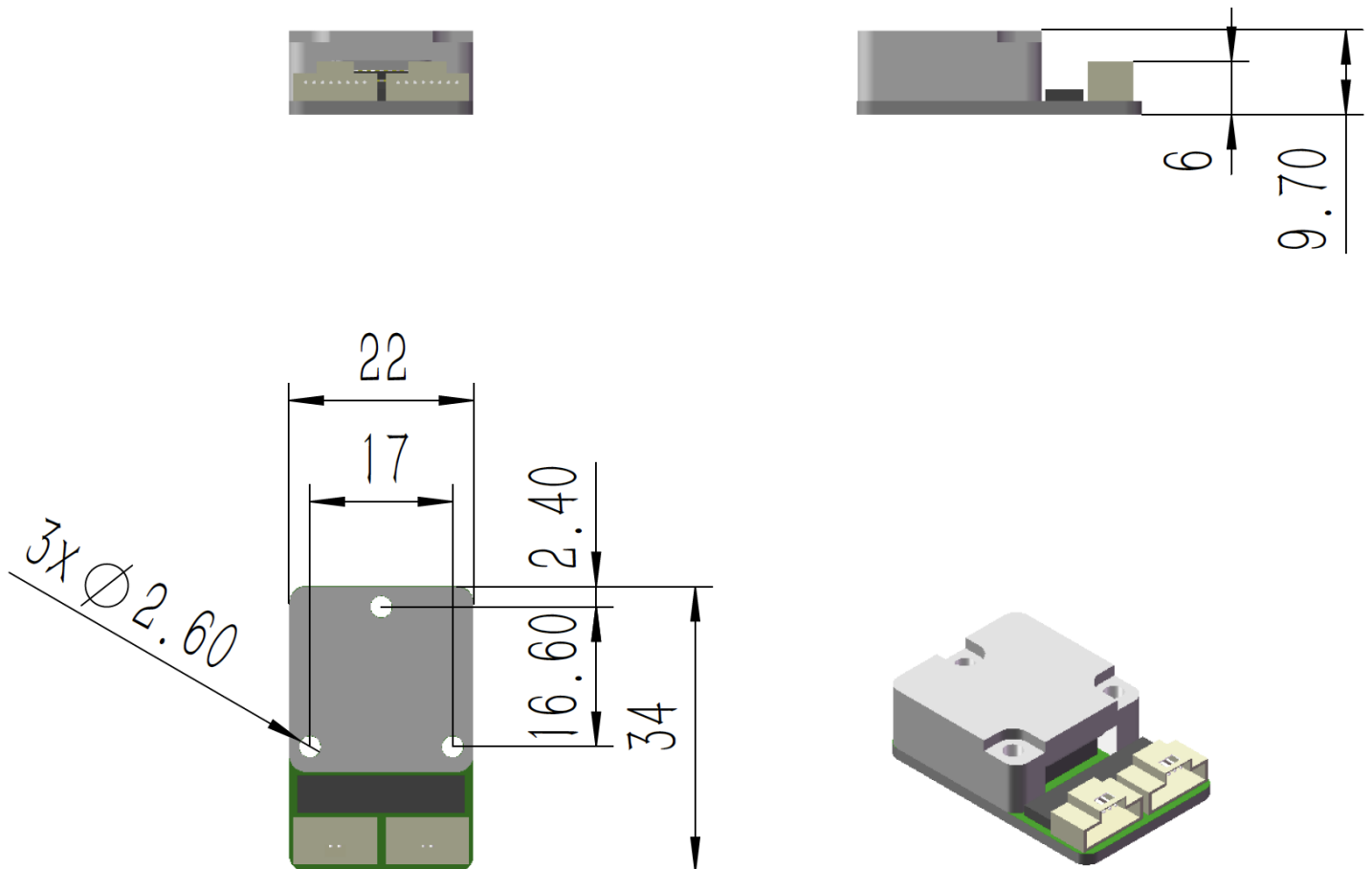


Figure1: EVAL HI12XX-MI1-100 mechanical dimension

4.2.2 EVAL-HI12XX-MI1-100 Pin Definitions

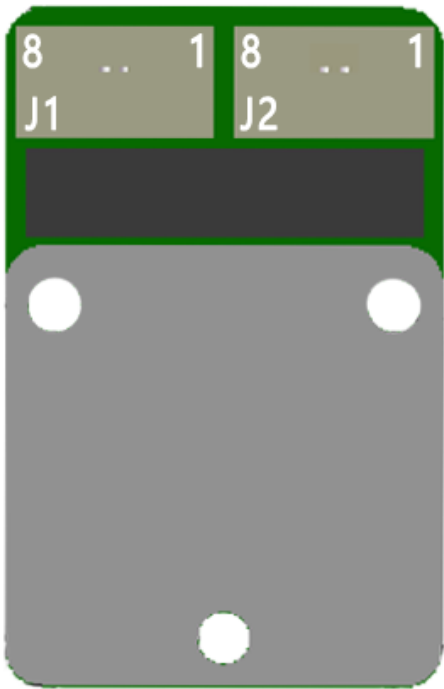


Table 3: Pin function description

Pin Number	Pin Name J1	Pin Name J2	Type	Note
1	TXD1	TXD2	O	1
2	RXD1	RXD2	I	
3	NC	NC	/	
4	GND	GND	POWER	
5,6	IO1,IO2	IO5,IO6	I/O	2
7	GND	POWER	POWER	
8	VDD	POWER	POWER	

Note1: UART1 of J1 is mainly used for data transmission and module configuration

Note2: Refer to HI12 series instruction and programming manual for IO functions

5 CABLE

5.1 Molex A (501330-0800) to Dupont Cable

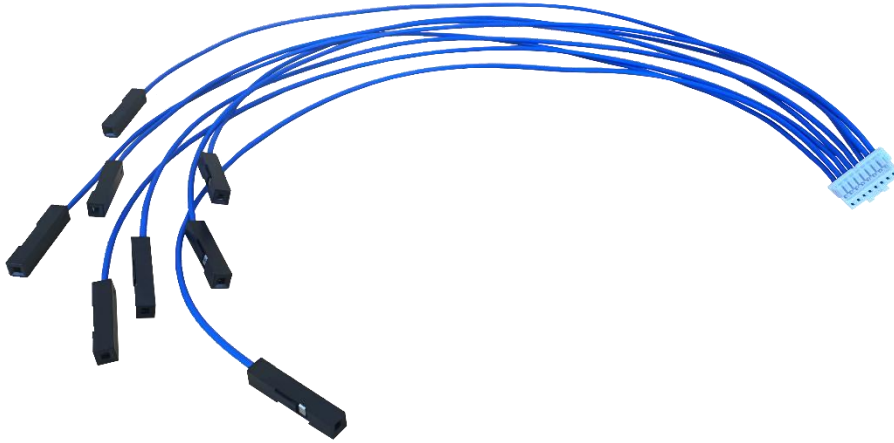


Figure2: 501330-0800 to dupont cable

5.2 USB to Molex A(501330-0800) Cable



Figure3: USB 转 Molex A(501330-0800)线束

Note1: This cable harness is applicable to HI12XX-MI0 and EVAL-HI12XX-MI1-100 products, with a cable length of 1m and built-in USB to UART(TTL) module

Note2: Driver download address: [CP210x USB to UART Bridge VCP Drivers - Silicon Labs \(silabs.com\)](https://www.silabs.com/CP210x-USB-to-UART-Bridge-VCP-Drivers)