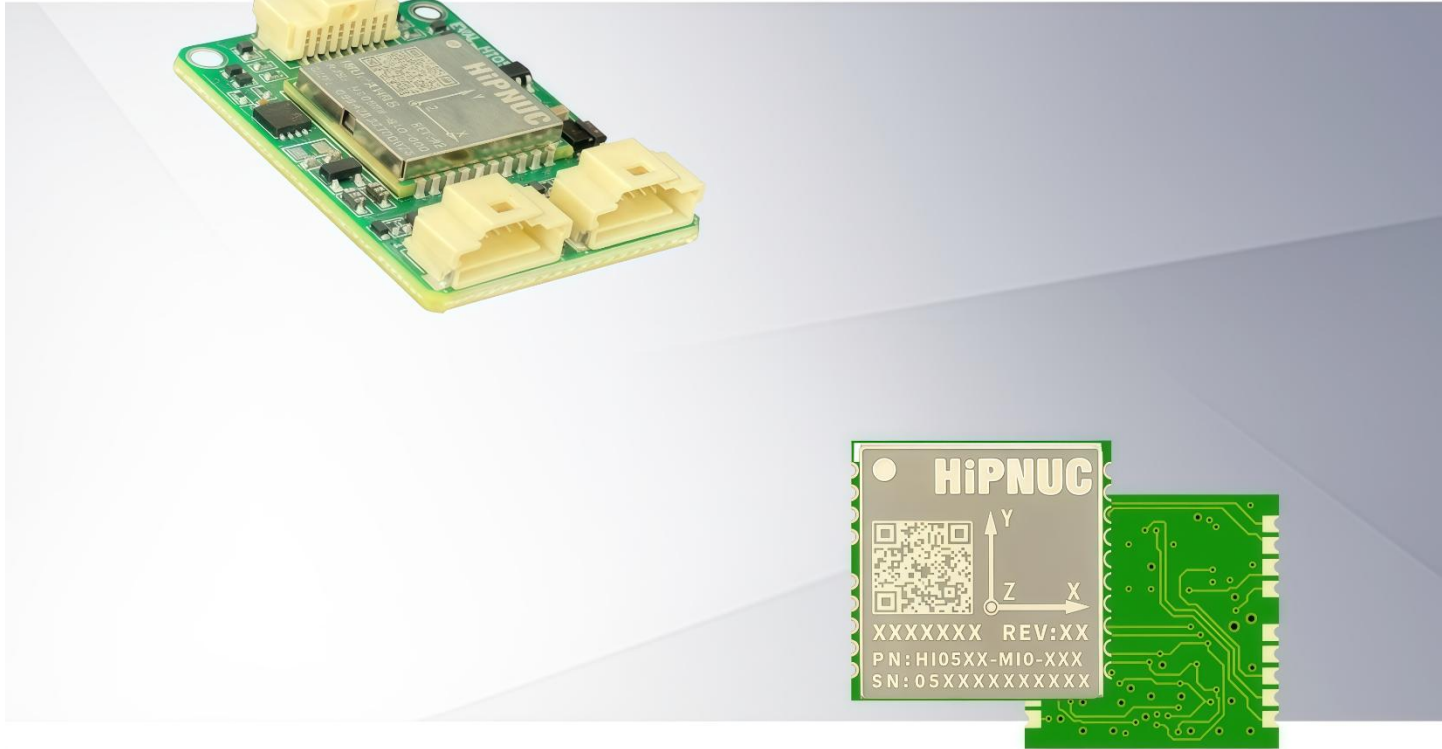




Document Information

Version	Date	Section	Changes
1.0	April 29, 2025	-	Initial

1 Overview

EVAL HI06 is a simplified evaluation board designed for quickly evaluate HI06 series attitude sensors. It has two Molex connectors (J1,J2) for communication with host devices via compatible USB-to-Molex cables or OPEN wiring harnesses. The EVAL HI06 must be rigidly mounted to user equipment during operation

2 Model Information

2.1 Model Information

Table 1: Model Information

Part Number	Name	Description	Note
EVAL HI06T3-MI0-000	HI06T3-MI0 Evaluation Board		

2.2 Contact us

- 1. Email: overseas1@hipnuc.com
- 2. web: www.hipnuc.com

3 Related Documentation

- 1. HI06 Data Sheet
- 2. Command&Programming Manual
- 3. Step File
- 4. GUI and Example Driver

4 Specifications

4.1 Operating

Table 2: Absolute Maximum Ratings

Parameters	Limit	Comment
Mechanical	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 Mechanical & Pin Definitions

All Dimensions in mm units.

4.2.1 Dimensions

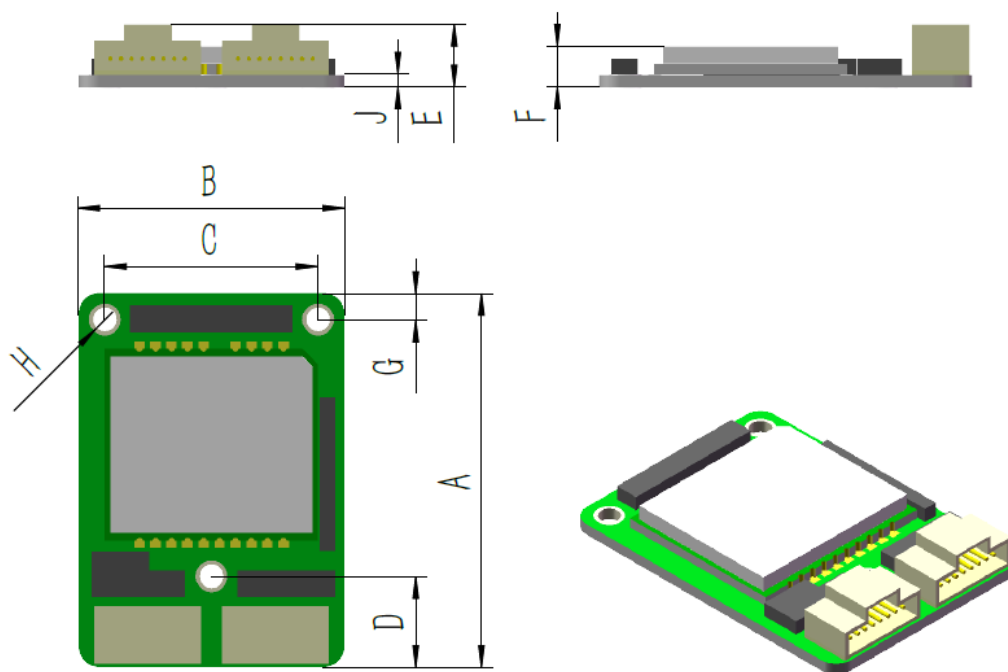


Figure1: HI06 interface mechanical dimension

Symbol	Min(mm)	Typ(mm)	Max(mm)
A	34.7	35	35.3
B	24.4	25	25.3
C	19.9	20	20.1
D	8.4	8.5	8.6
E	5.8	5.9	6
F	3.7	3.8	3.9
G	2.4	2.5	2.6
H		Φ2.2	
J	1.1	1.2	1.3

EVAL HI06

HI06 Series Evaluation Board

REV:1.0

4.2.2 VAL HI06 Pin Definitions

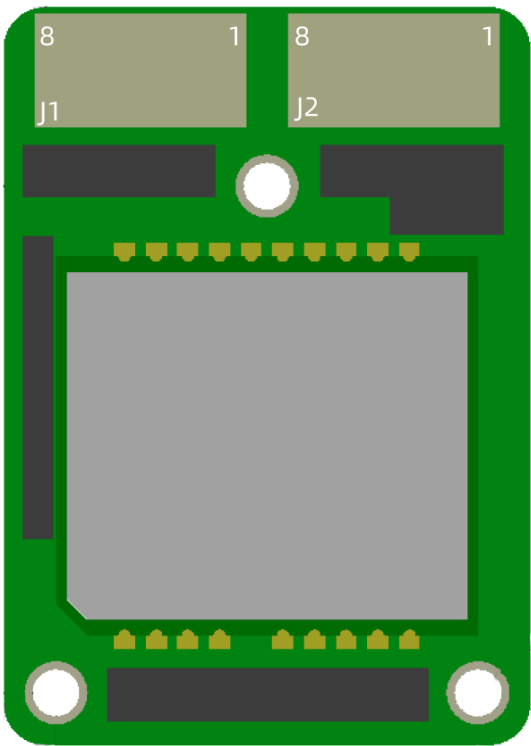


Table 3: EVAL HI06 Pin Functional

Pin Number	Pin Name J1	Pin Name J2	Note
1	UART1_TXD/I2C1_SCL	UART2_TXD	
2	UART1_RX/ I2C1_SDA	UART2_RXD	
3	GND	CAN H	
4	GND	CAN L	
5,	IO1(SYNC_IN/PPS)	GND	
6	IO2(SYNC_OUT)	GND	
7	GND	UART3_RX	
8	VDD	UART3_TX	

5 Cables

5.1 Molex A (501330-0800) Dupont Header Cable

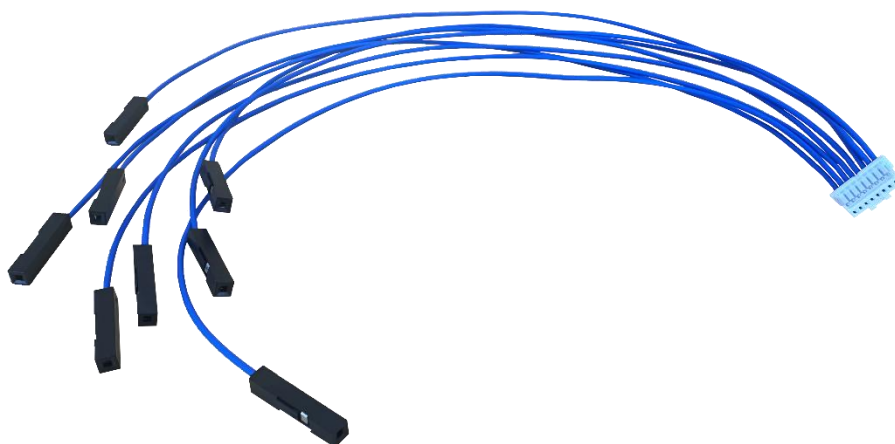


Figure2: 501330-0800 dupont cable assembly

5.2 USB to Molex A (501330-0800) Cable



Figure3: SB to Molex A (501330-0800) Cable

Note1: Compatible with EVAL HI06XX products. 1m length, integrated USB-to-UART (TTL) converter

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