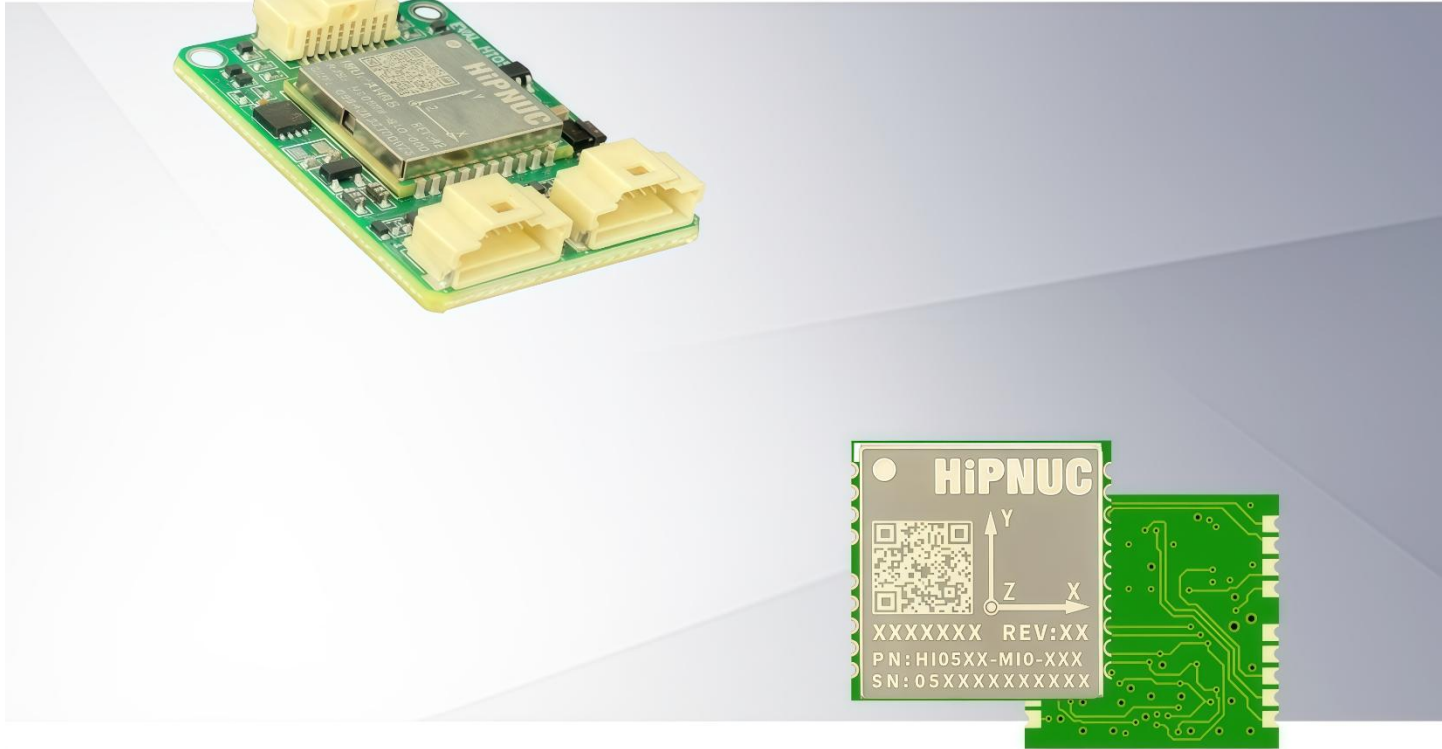




Document Information

Version	Date	Section	Changes
1.0	April 29, 2025	-	Initial

1 Overview

EVAL HI05 is a simplified evaluation board designed for quickly evaluate HI05 series attitude sensors. It has three Molex connectors (J1,J2,J3) for communication with host devices via compatible USB-to-Molex cables or OPEN wiring harnesses. The EVAL HI05 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 HI05M2-MI0-000	HI05M2-MI0 Evaluation Board		
EVAL HI05R2-MI0-000	HI05R2-MI0 Evaluation Board		
EVAL HI05R2-MI1-000	HI05R2-MI0 Evaluation Board		
EVAL HI05R4-MI0-000	HI05R4-MI0 Evaluation Board		

2.2 Contact us

- 1. Email: sales@hipnuc.com
- 2. Phone Number: +86 010-69726346
- 3. web: www.hipnuc.com

3 Related Documentation

- 1. HI05 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

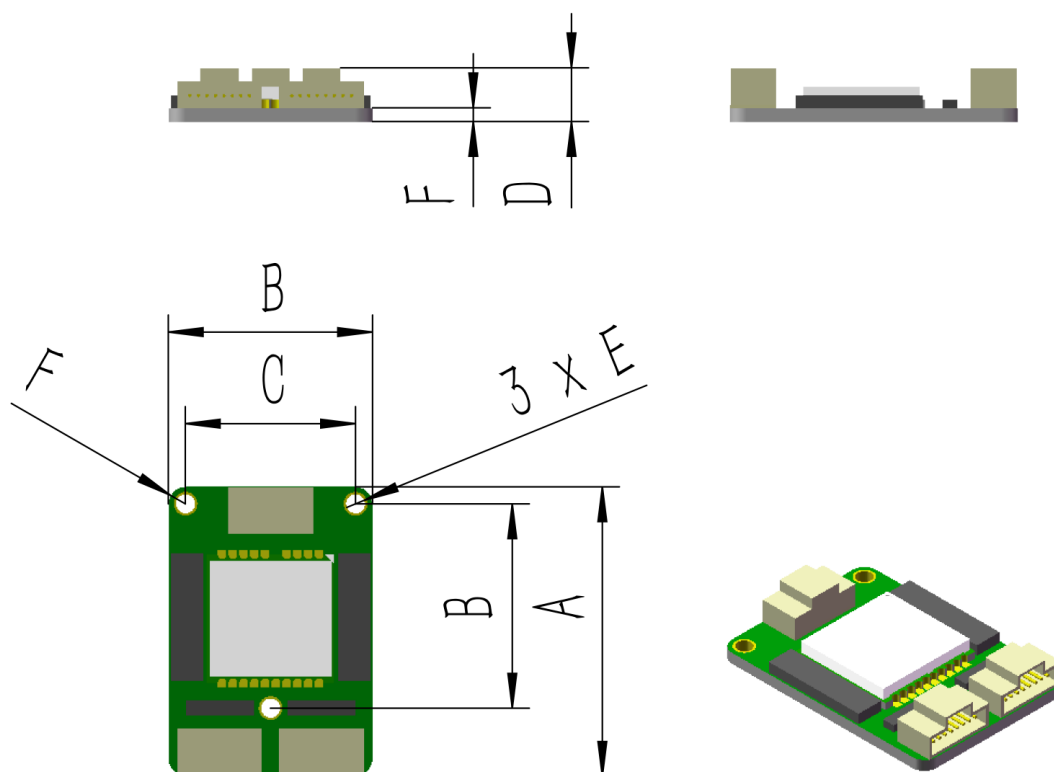


Figure1: HI05 interface mechanical dimension

Symbol	Min(mm)	Typ(mm)	Max(mm)
A	33.7	34	34.3
B	23.9	24	24.1
C	19.9	20	20.1
D	6.1	6.3	6.5
E	Φ2.1	Φ2.2	Φ2.3
F	R1.9	R2	R2.1

4.2.2 VAL HI05 Pin Definitions

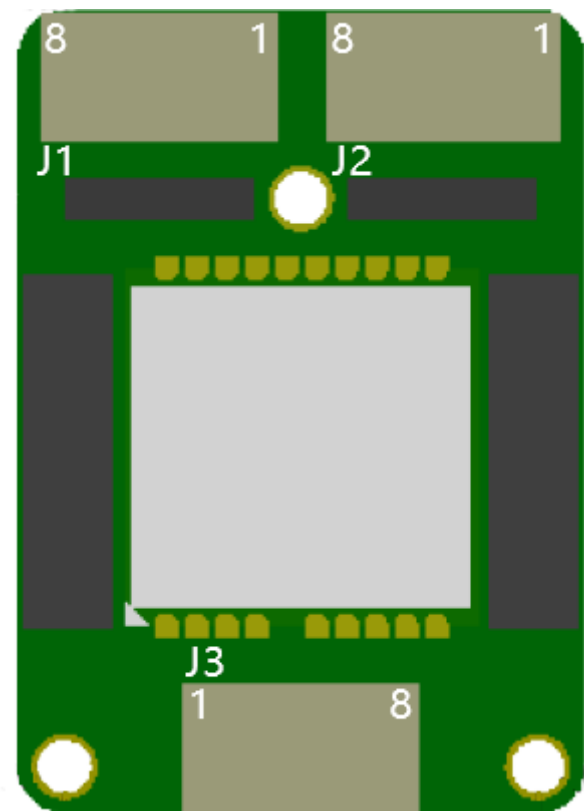


Table 3: EVAL HI05 Pin Functional

Pin Number	Pin Name J1	Pin Name J2	Pin Name J3	Note
1	UART1_TXD/I2C1_SCL	UART2_TXD	UART4_TX	
2	UART1_RX/ I2C1_SDA	UART2_RXD	UART4_RX	
3	GND	CAN H	SPI_MOSI	
4	GND	CAN L	SPI_MISO	
5,	IO1(SYNC_IN/PPS)	GND	GND	
6	IO2(SYNC_OUT)	GND	GND	
7	GND	UART3_RX	SPI_SCK	
8	VDD	UART3_TX	SPI_CS	

5 Cables

5.1 Molex A (501330-0800) Dupont Header Cable

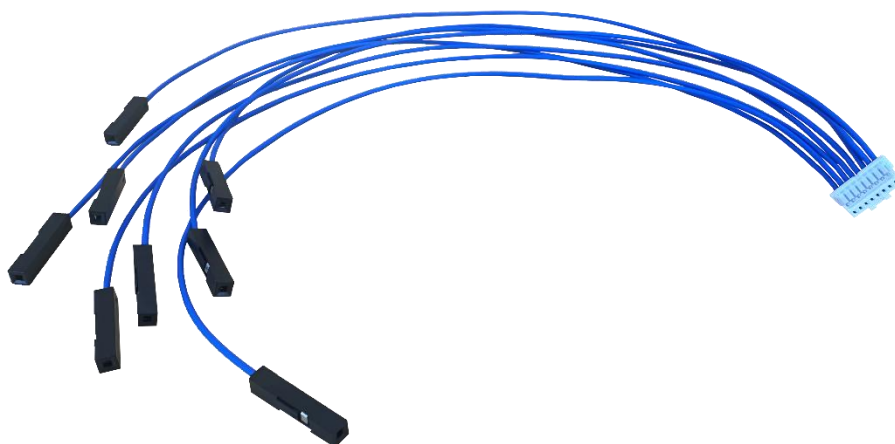


Figure2: 501330-0800 dupont cable assembly

5.2 USB to Molex A (501330-0800) Cable



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

Note1: Compatible with EVAL HI05XX 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)