

#### Document History

| Version | Date      | Section | Changes                              |
|---------|-----------|---------|--------------------------------------|
| 1.0     | 5/29/2025 | -       | Initial                              |
| 1.1     | 2/28/2026 | All     | Modify Pin Definition and appearance |

## 1 OVERVIEW

EVAL HI02 is a simplified evaluation board designed for quickly evaluate HI02 series attitude sensors. It has a Molex connectors J1 for communication with host devices via compatible USB-to-Molex cables or OPEN wiring harnesses. The EVAL HI02 must be rigidly mounted to user equipment during operation

## 2 SELECTION

### 2.1 Selection information

Table 1: Selection informatio

| Part Number     | Name                        | Description | Note |
|-----------------|-----------------------------|-------------|------|
| EVAL HI02M0-MI0 | HI02M0-MI0 Evaluation Board |             |      |

### 2.2 Contact us

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

## 3 DOCUMENTATIONS

1. HI02 Data Sheet
2. Command&Programmin Manual
3. 3D Step
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 4.2 Mechanical & Pin Definitions

All Dimensions in mm units.

#### 4.2.1 Dimensions

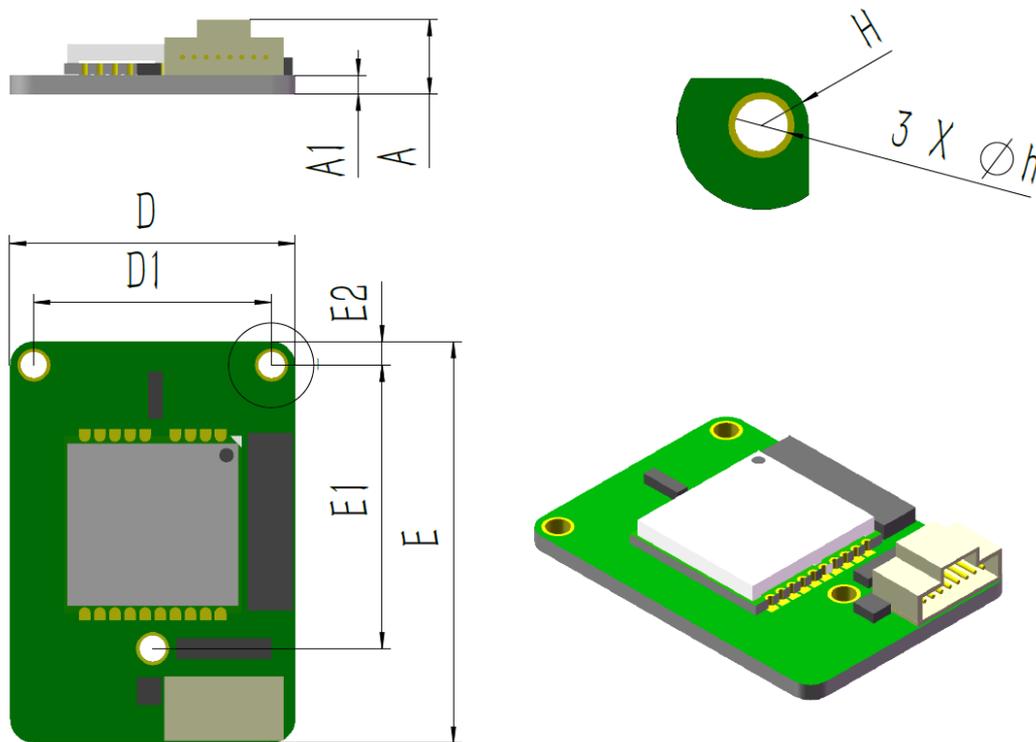


Figure1: EVAL HI02 Mechanical Dimension

| Symbol | Min(mm) | Typ(mm) | Max(mm) |
|--------|---------|---------|---------|
| D      | 23.7    | 24      | 24.3    |
| D1     | 19.9    | 20      | 20.1    |
| E      | 33.7    | 34      | 34.3    |
| E1     | 23.9    | 24      | 24.1    |
| E2     | 1.8     | 2       | 2.2     |
| A      | 6.1     | 6.3     | 6.5     |
| A1     | 1.5     | 1.6     | 1.7     |
| H      | Φ1.9    | Φ2      | Φ2.1    |

**Table 3: EVAL HI02 Pin Definitions**

| Pin Number | Pin Name J1     | Note |
|------------|-----------------|------|
| 1          | UART1_TX        |      |
| 2          | UART1_RX        |      |
| 3          | GND             |      |
| 4          | NRST            |      |
| 5,         | IO1/SYNC_IN/PPS |      |
| 6          | IO2/SYNC_OUT    |      |
| 7          | GND             |      |
| 8          | VDD             |      |

## 5 CABLES

### 5.1 5.1 Molex A (501330-0800) Dupont Header Cable

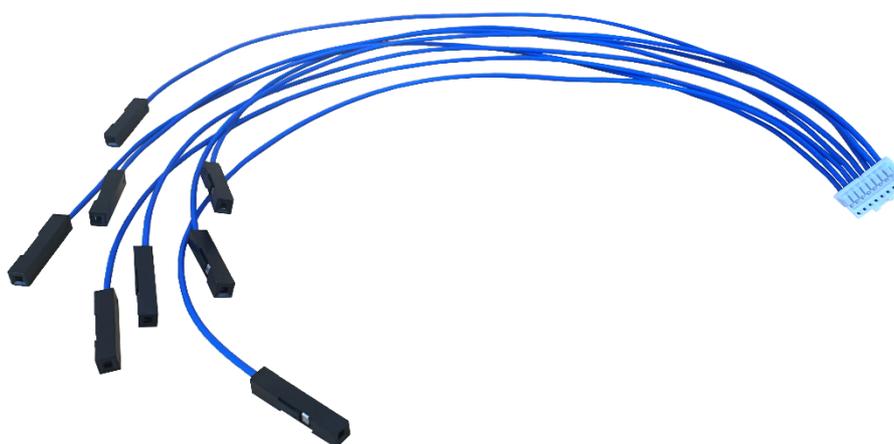


Figure2: 501330-0800 To Dupont Cable

**Note1:** Cable length 30cm

### 5.2 USB to Molex A (501330-0800) Cable



Figure3: USB To Molex A(501330-0800) Cable

**Note1:** Compatible with EVAL HI02XX products. 1m length, integrated USB-to-UART (TTL) converte.connect J1

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