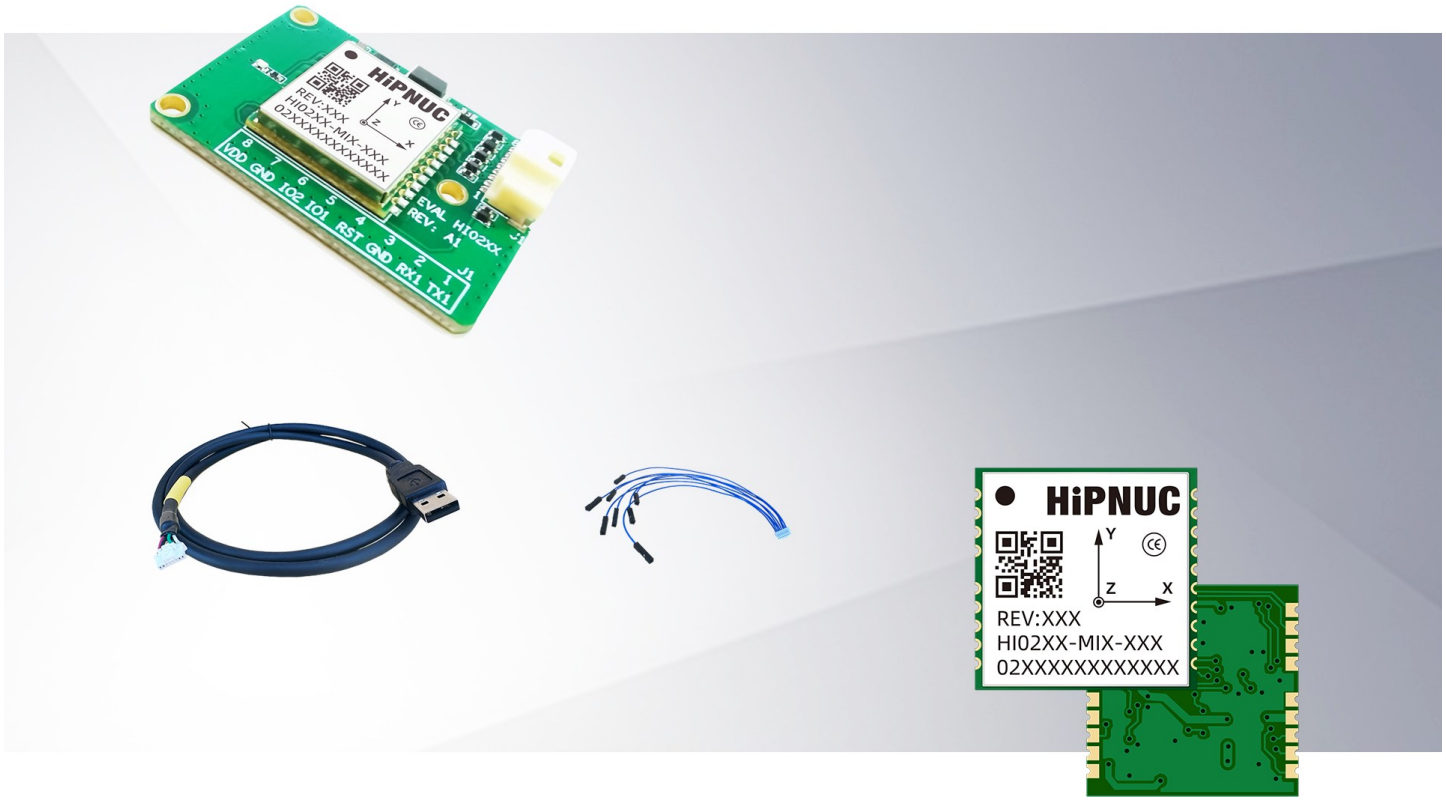

Document History

Version	Date	Author	Changes
1.0	5/29/2025	HiPNUC	Initial
1.1	2/28/2026	HiPNUC	Updated appearance and pin definitions

Contents

1 OVERVIEW 3
2 ORDERING INFORMATION 3
2.1 Part Information 3
2.2 Contact Information 3
3 RELATED DOCUMENTS 3
4 SPECIFICATIONS 4
4.1 Absolute Maximum Ratings 4
4.2 Mechanical Dimensions and Pin Definitions 4
4.2.1 Dimensions 4
4.2.2 Pin Definitions 5
5 CABLES 5
5.1 Molex A (501330-0800) to Dupont Cable 5
5.2 USB to Molex A (501330-0800) Cable 5

1 OVERVIEW

EVAL HI02 is an evaluation board for HI02 series modules, intended for quick functional and performance evaluation. The board is equipped with one Molex connector (J1) and can communicate with a host through a USB-to-Molex cable or an open-ended cable harness. During operation, EVAL HI02 must be rigidly mounted to the user equipment or test fixture.

2 ORDERING INFORMATION

2.1 Part Information

Table 1: Part Information

Part Number	Name	Description
EVAL HI02M0-MI0	HI02M0-MI0 Evaluation Board	Evaluation board for HI02 series modules

2.2 Contact Information

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

3 RELATED DOCUMENTS

1. HI02 Data Sheet
2. Command and Programming Manual
3. STEP File
4. GUI Software and Reference Examples

4 SPECIFICATIONS

4.1 Absolute Maximum Ratings

Table 2: Absolute Maximum Ratings

Parameters	Limit	Comment
Mechanical Shock	2000 g	Duration < 1 ms
Storage Temperature	-40 °C-85 °C	
ESD (HBM)	15 kV	JEDEC/ESDA JS-001
Input Voltage	3.3-6.5 V	
I/O to GND	-0.3-3.3 V	

4.2 Mechanical Dimensions and Pin Definitions

All dimensions are in mm.

4.2.1 Dimensions

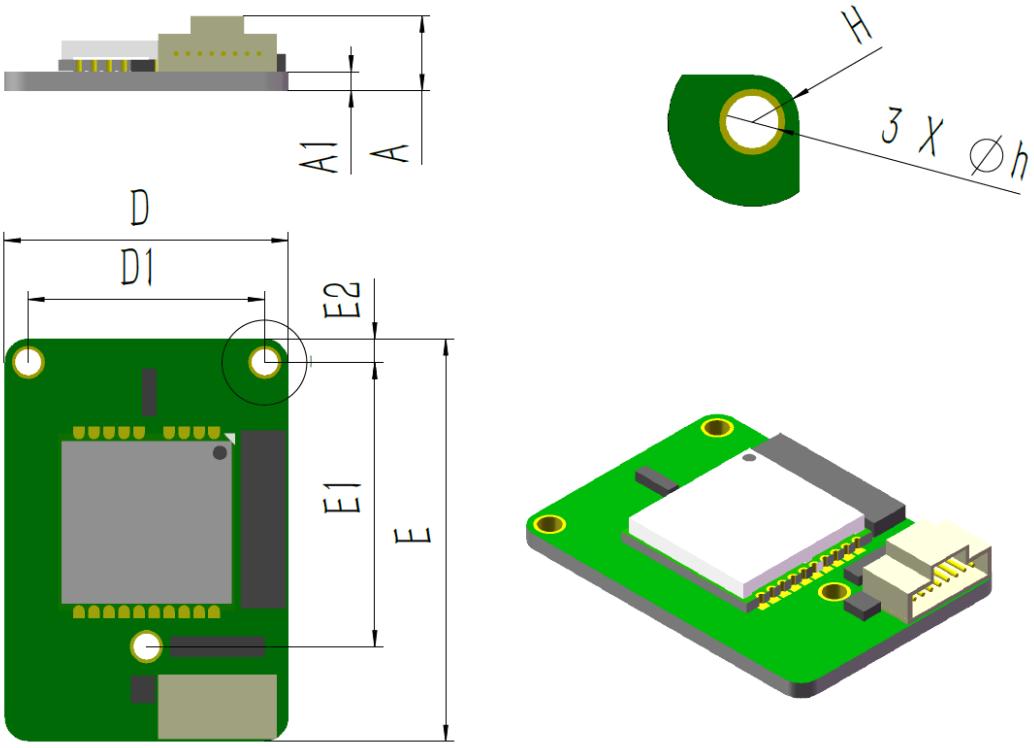

Figure 1: EVAL HI02 Mechanical Dimensions

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

4.2.2 Pin Definitions

Table 3: EVAL HI02 Pin Definitions

Pin Number	Pin Name	Function	Note
1	UART1_TX	UART1 transmit output	
2	UART1_RX	UART1 receive input	
3	GND	Ground	
4	NRST	Reset pin, active low. Connect to host GPIO if used; otherwise leave floating	
5	IO1/SYNC_IN	Synchronization input, accepts external trigger signals	
6	IO2/SYNC_OUT	Synchronization output, can be used as a Data Ready signal	
7	GND	Ground	
8	VDD	Power input, 3.3 to 5.0 V	

5 CABLES

5.1 Molex A (501330-0800) to Dupont Cable

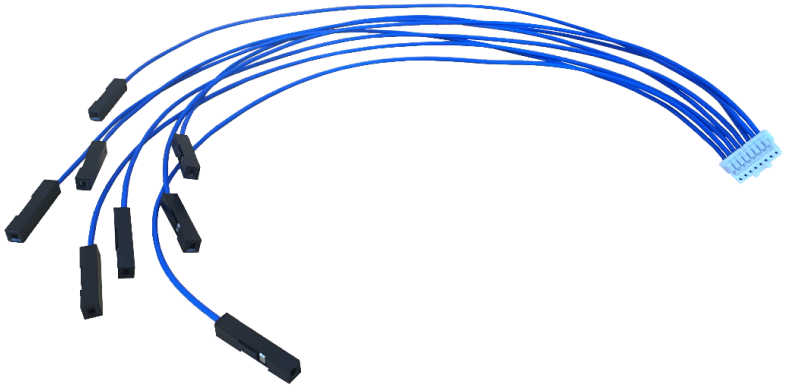

Figure 2: Molex A (501330-0800) to Dupont Cable

Note 1: Cable length: 30 cm

5.2 USB to Molex A (501330-0800) Cable

Figure 3: USB to Molex A (501330-0800) Cable

Note 2: This cable is compatible with EVAL HI02XX products. Cable length: 1 m. It integrates a USB-to-UART converter with TTL levels.

Note 3: Driver download: CP210x USB to UART Bridge VCP Drivers