

# **EVKT-USBI2C-02**

# Communication Interface Device USB to I<sup>2</sup>C/PMBus

### **DESCRIPTION**

EVKT-USBI2C-02 provides the communication interface for USB to I<sup>2</sup>C or USB to PMBus. It is designed to work with MPS I<sup>2</sup>C and PMBus products, and Virtual Bench Pro, and I<sup>2</sup>C GUI tools. The EVKT-USBI2C-02 kit includes one USB to I<sup>2</sup>C communication device interface.

one USB cable, one 10-pin ribbon cable one 3-pin ribbon cable, one datasheet, and driver files. Together with MPS Virtual Bench Pro and I<sup>2</sup>C GUI tools, it provides a quick and easy way to evaluate the performance of MPS digital products.

#### **EVKT-USBI2C-02**





#### **EVKT-USBI2C-02 CONNECTION**



© 2021 MPS. All Rights Reserved.



# **RIBBON CABLE DESCRIPTION**

EVKT-USBI2C-02 supports two kinds of ribbon cable connections between the communication interface device and the evaluation board, 3-Pin ribbon cable and 10-Pin ribbon cable. Figure 1 shows the bottom view of the 10-Pin ribbon cable and Table 1 shows the pin descriptions.

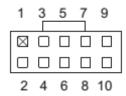


Figure 1: 10-Pin Ribbon Cable Bottom View

Table 1. 10-Pin Ribbon Cable Pins

| Pin# | Description | Pin# | Description |
|------|-------------|------|-------------|
| 1    | SCL         | 2    | SCL         |
| 3    | GND         | 4    | GND         |
| 5    | SDA         | 6    | SDA         |
| 7    | GND         | 8    | GND         |
| 9    | NC          | 10   | NC          |



#### **QUICK START GUIDE**

- 1. Connect the EVKT-USBI2C-02 to the evaluation board with the 3-pin ribbon cable or 10-pin ribbon cable and ensure they are connected.
- 2. Connect the EVKT-USBI2C-02 to the computer.
- 3. Turn on the power supply of the evaluation board, then start the I<sup>2</sup>C GUI software; it will check the connection automatically. If the connection is not successful, a warning will appear at the bottom. Otherwise, the address will be listed in the Slave Address bar.
- 4. Select the part number, the control register information will be seen in the Register Control bar.

#### Warning:

It is important to adhere to the order of steps 1 and 2. Failing to do so may cause damage to the communication pins (SCL, SDA) during a hot plug event.



# **REVISION HISTORY**

| Revision # | Revision Date | Description                                      | Pages Updated |
|------------|---------------|--|---------------|
| 1.12       | 3/8/2021      | Updated Quick Start Guide and connection diagram | 1, 3          |

**Notice:** The information in this document is subject to change without notice. Please contact MPS for current specifications. Users should warrant and guarantee that third-party Intellectual Property rights are not infringed upon when integrating MPS products into any application. MPS will not assume any legal responsibility for any said applications.