DESCRIPTION

EVKT-USBI2C-02 provides the communication interface for USB to I²C or USB to PMBus. It is designed to work with MPS I²C and PMBus products, and Virtual Bench Pro, and I²C GUI tools. The EVKT-USBI2C-02 kit includes one USB to I²C 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 I²C GUI tools, it provides a quick and easy way to evaluate the performance of MPS digital products.

EVKT-USBI2C-02

EVKT-USBI2C-02 CONNECTION

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.
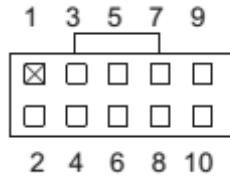

Figure 1: 10-Pin Ribbon Cable Bottom View

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^{2}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