

#### DESCRIPTION

The EVKT-UART-01A is MPS's USB to UART communication interface. It is designed to work with MPS's AC/DC digital products that feature UART communication.

The EVKT-UART-01A provides isolation between the USB port and the UART interface, which protects the user and the computer from potentially hazard high voltages.

The EVKT-UART-01A has a built-in 24V power supply for ICs. There is no need to use an additional DC source.

Together with the MPS's AC/DC GUI tool, the EVKT-UART-01A provides a quick and easy way to evaluate the performance of MPS's AC/DC products with UART communication.

#### FEATURES

- High-Voltage Isolation to Protect the User and Computer
- Built-In 24V Power Supply for ICs
- Simple and Easy to Use

#### EVKT-UART-01A



Figure 1: UART Kit Communication Interface

## EVKT-UART-01A CONNECTION

Figure 2 shows a connection example, featuring the connection between HR121x GUI and the HR121x evaluation board using the EVKT-UART-01A.

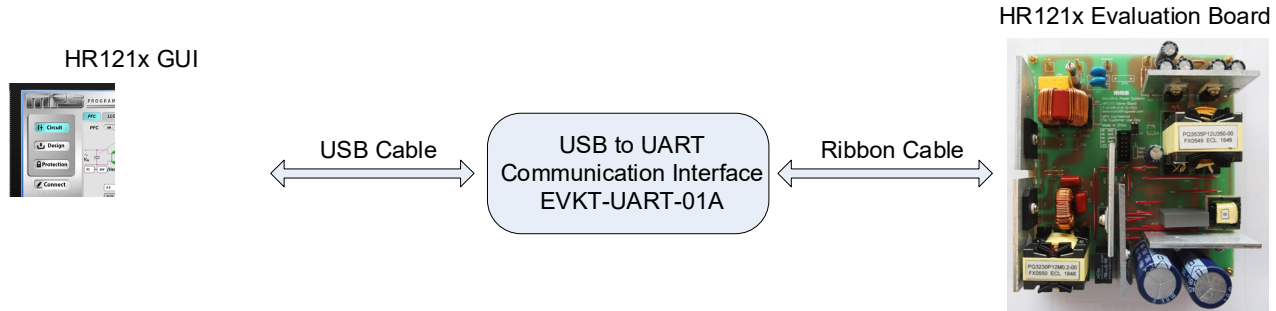


Figure 2: EVKT-UART-01A Connection Example

## RIBBON CABLE DESCRIPTION

The EVKT-UART-01A adopts a 10-pin socket to connect the communication interface device to the IC on evaluation board. The user can also connect it to the IC with three wires, depending on the circuit configuration.

Figure 1 shows the top view of the 10-pin socket outline. Table 1 shows the pin functions.

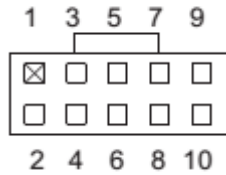


Figure 2: 10-Pin Socket Top View

Table 1: 10-Pin Socket Pin Functions

Pin #	Name	Description
1	NC	No connection
2	NC	No connection
3	GND	Ground
4	NC	No connection
5	UART	Communication I/O
6	NC	No connection
7	GND	Ground
8	NC	No connection
9	NC	No connection
10	VCC	24V power supply for IC

## **QUICK START GUIDE**

1. Connect the EVKT-UART-01A to the evaluation board with either the 3-pin ribbon cable or the 10-pin ribbon cable, both of which are included with this EVKT, and ensure it is securely connected.
2. Connect the EVKT-UART-01A to the computer.
3. Start the AC/DC GUI software. This software can be provided by contacting an MPS FAE.
4. Click the “Scan” button in the GUI.
5. Choose the relevant IC part number. The GUI should check the connection automatically and enter the program’s main window. If the connection is not successful, a warning message will appear. If this occurs, close the GUI and check the connection, then restart from step 1.
6. To modify parameters, click the “Connect” button, then program the register values to the IC.

## REVISION HISTORY

Revision #	Revision Date	Description	Pages Updated
1.0	12/06/2021	Initial Release	-

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