ATUSB-I2C-AUTO-PCB Information Sheet

Documentation Zip Contents

Information Sheet
PCB Design file schematic
PCB Design file layout

Kit Contents

1x ATUSB-I2C-AUTO-PCB (80195)

Using the ATUSB-I2C-AUTO-PCB

This product provides an interface to convert I2C and debug signals to USB and communicate with the PC-based applications. This product is designed to be used with Microchip maXTouch touchscreen controllers.

The ATUSB-I2C-AUTO-PCB automatically adapts the voltage levels for SDA, SCL, /CHG, /RESET, DBG_CLK and DBG_DATA signals depending on the connected maXTouch device. The valid VDD levels for these signals are between 3.14 V and 3.47 V.

The communication interface between the bridge IC and the target may be either via the level shifter ICs or bypassing them:

Using Level shifter
- VDD_BRIDGE must be 5V
- R6 + R7 are placed
- R8 + R13 are DNF
- LK3, LK5, LK6, LK7, LK8, LK9 are OPEN

Bypassing Level shifter
- VDD_BRIDGE must be 3V3
- R6 + R7 are DNF
- R8 + R13 are placed
- LK3, LK5, LK6, LK7, LK8, LK9 are CLOSED

In either case, power for the VDD rail must be supplied from the host. The ATUSB-I2C-AUTO-PCB is not designed to supply power to a host system.

Additional Information

The product documentation zip file and more information about the device is available from your Microchip representative.