



# USB0010 V1.0 User Guide

February 2025

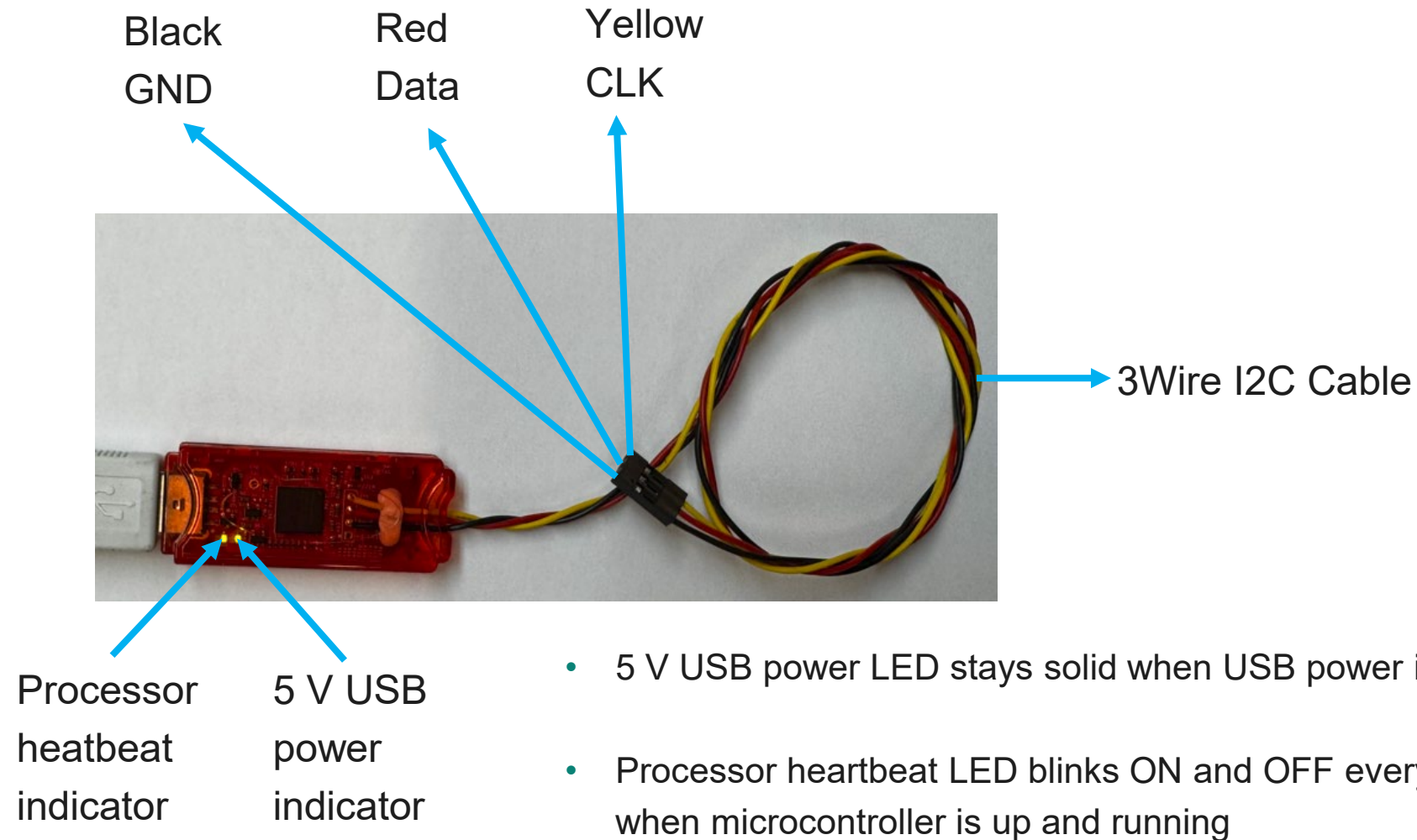


# USB0010

## Specifications

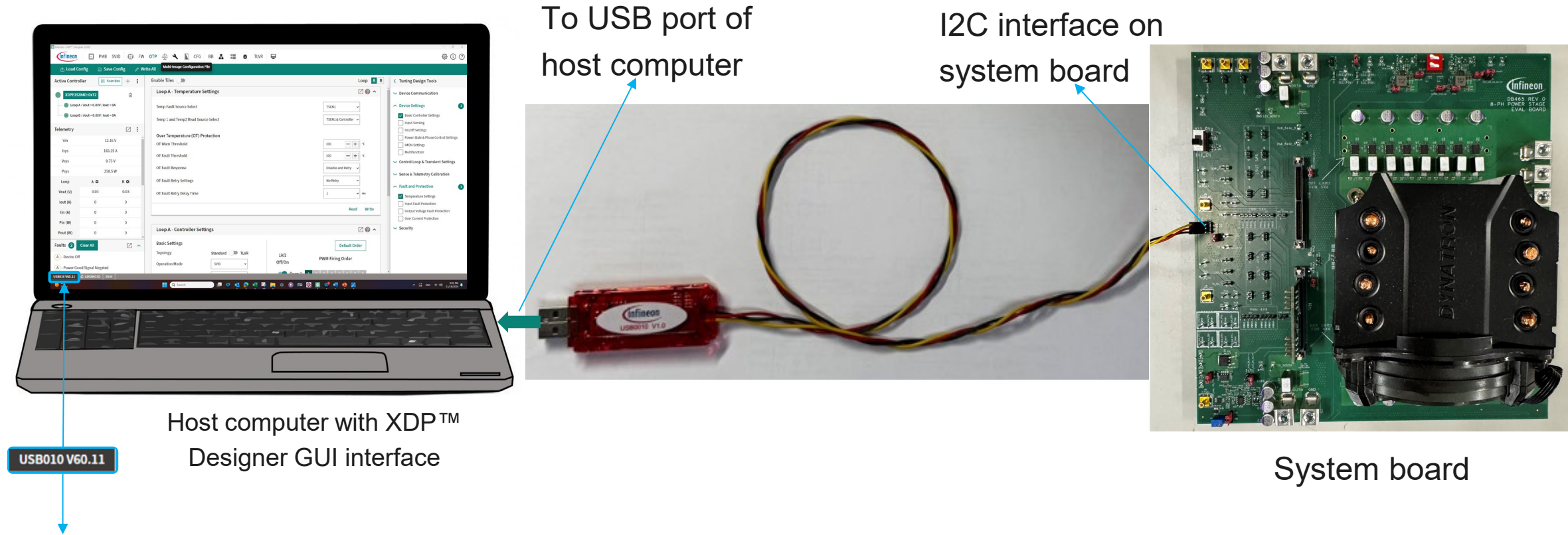


- USB0010 Dongle is a USB to I2C interface that can be used to communicate with Infineon Digital controllers and Digital Point of Load converters through an XDP™ designer GUI installed on the host computer.
- It is powered by the 5 V USB supply. No external power supply is required.
- By default, the dongle supports I2C bus voltage of 3.3 V. The Dongle can be converted to I2C bus voltages of 2.5 V or 1.8 V as per instructions provided in user manual.
- I2C speed settings – Can be set to 100 KHz, 200 KHz, 400 KHz and 800 KHz through the GUI.
- This dongle is compatible with Infineon XDP™ Designer GUI V2.0 and above versions only.
- USB0010 Dongle is identified by the red color of its housing.



# USB0010 Dongle

## Example of its use



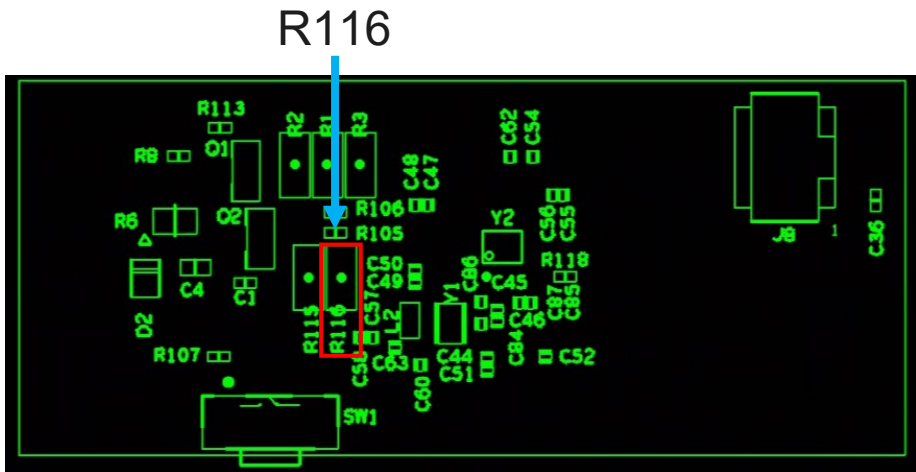
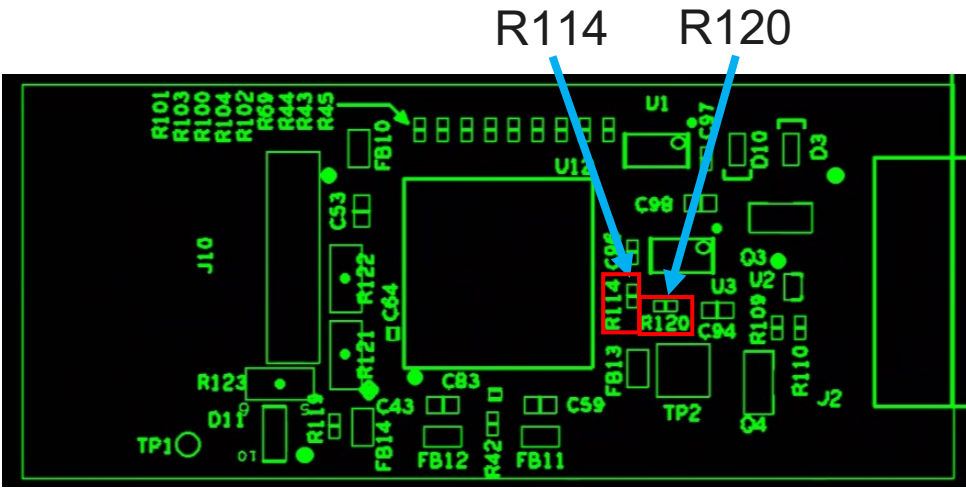
This indicates USB0010 with firmware version V60.11 is connected to the PC

# Conversion of the dongle for 3.3 V, 2.5 V and 1.8 V I2C Bus voltage levels



- By default, the dongle is set to 3.3 V I2C Bus voltage
- Please refer to the following table for the component value changes for the different bus voltages

Part	3.3V Dongle	2.5V Dongle	1.8V Dongle
R114	0 Ohm Placed	Not placed	Not placed
R120	Not placed	0 Ohm Placed	0 Ohm Placed
R116	86.6k Placed	182k Placed	86.6k Placed





# USB0010

## Dongle firmware update



- When the dongle is connected, the XDP™ Designer GUI will check if the firmware version is up-to-date.
- If it is not, it will notify user to upgrade the dongle firmware. User can either accept the upgrade or decline.
- If user accepts the upgrade, the GUI will begin updating the firmware of the dongle. This may take a few minutes.
- If the user declines the upgrade, user will not be notified again. User can manually start the upgrade procedure by clicking on the dongle on the bottom left and clicking the "Upgrade" button.

