WBTC Demonstrator manual

Preparing the hardware

To use the system you will need the following:

0- WBTC case with system inside	1- mini-USB male to male USB A cable 2- Power plug / cord 3- Ethernet cable

Figure : All of the WBTC hardware
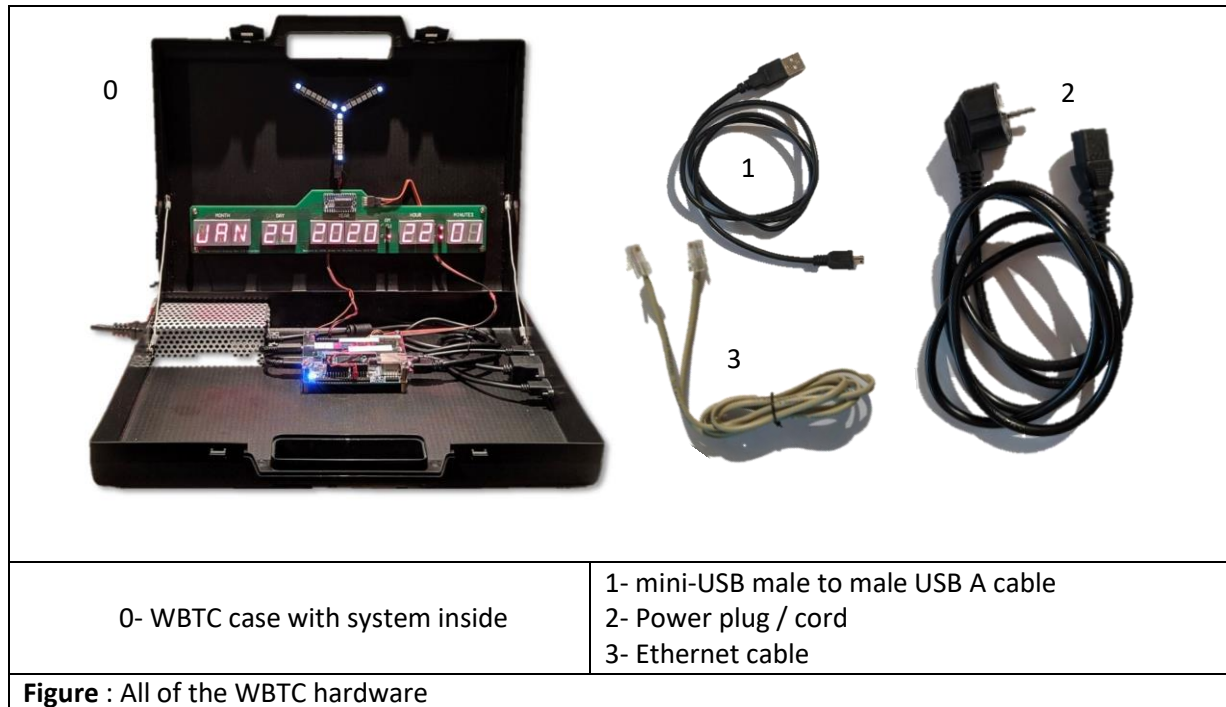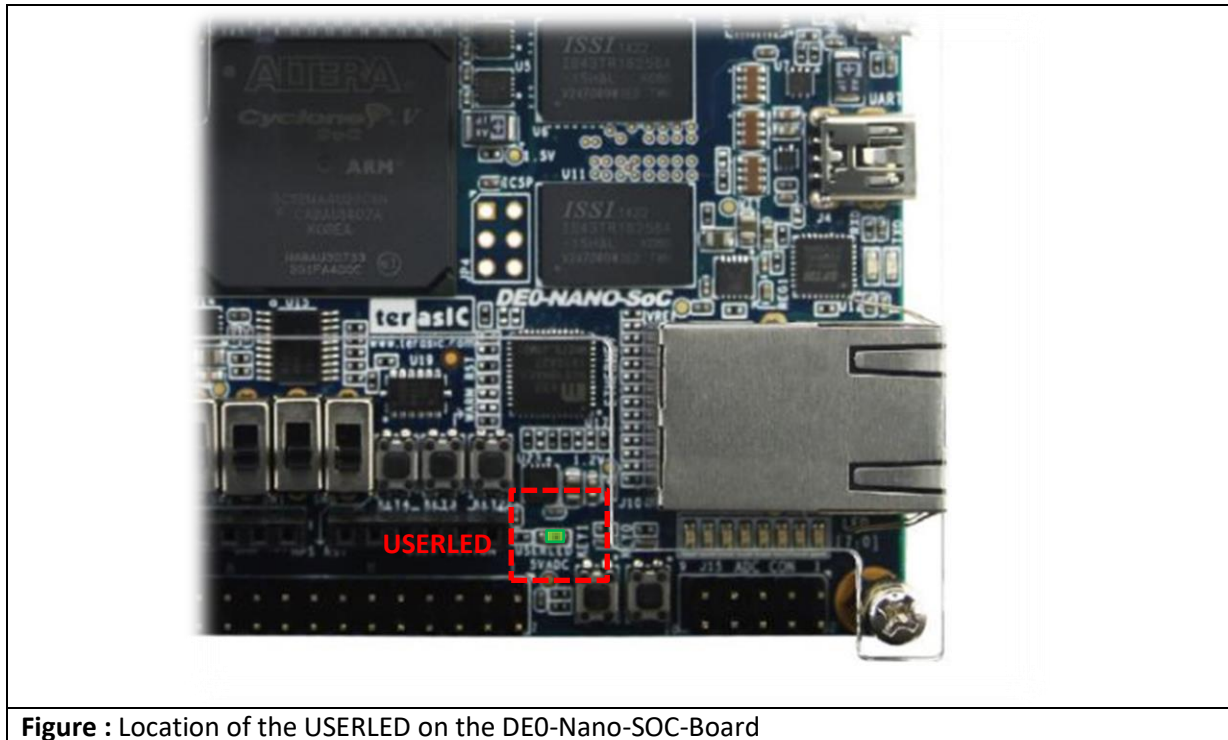
Powering the system on

The power plug is located on the **left** side of the case. First plug the into the wall socket and secondly plug the over end into the WBTC left power socket.

230V/AC plug

Figure: Power plug location on the WBTC case
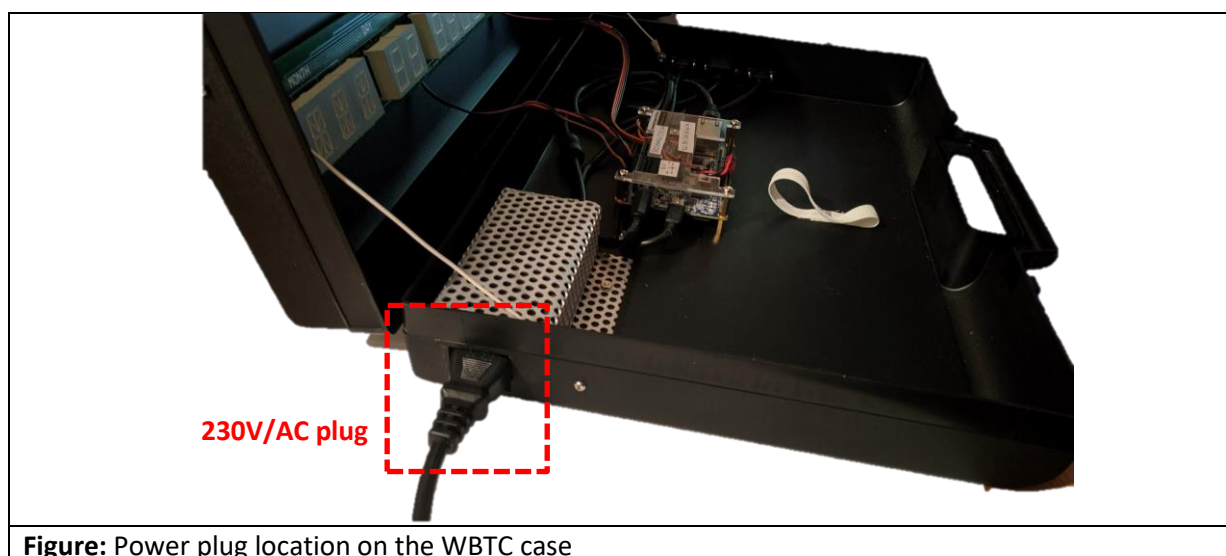
*"That's all you need to do to **power ON** the system !"**

The system will take approximately **20 seconds** to be ready.

You will see the **USERLED (on the DE0-Nano-SOC board)** flashing with a **heartbeat** pattern when the system is running. The Time Circuit Display and Flux Capacitor will light up after 15 to 20 seconds.

Figure : Location of the USERLED on the DE0-Nano-SOC-Board

Connecting to the board

Via the UART console
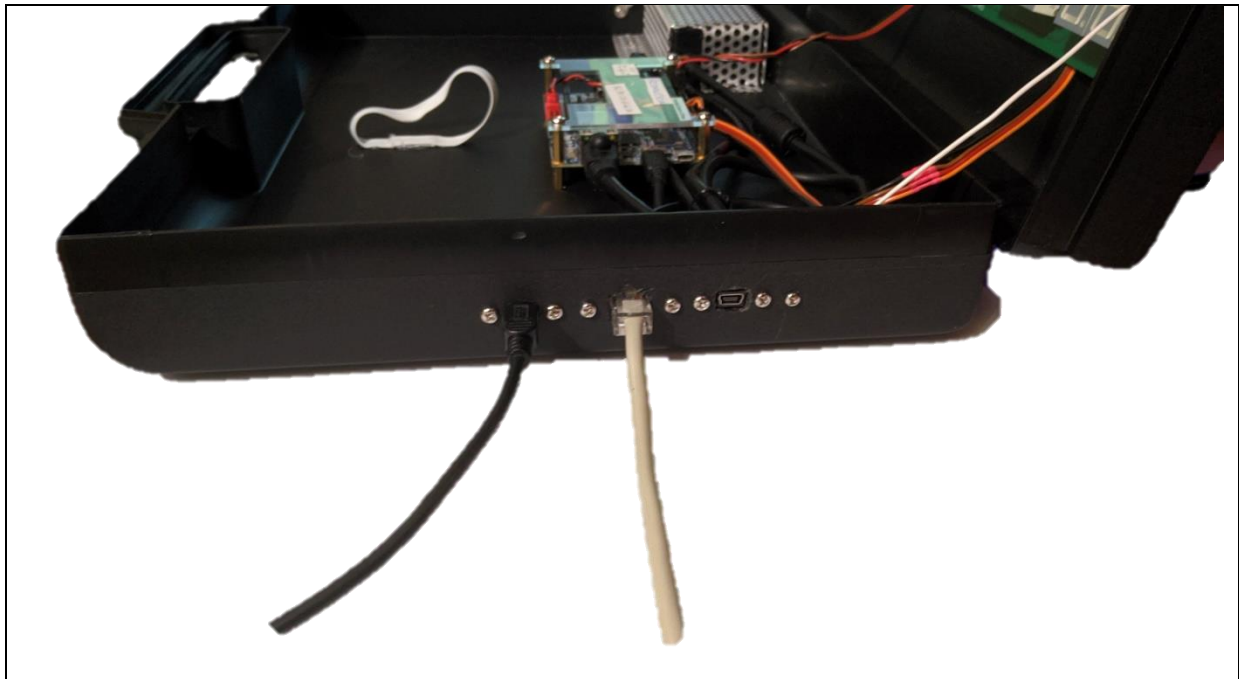
Via the local network

Figure : Connectors for the network and UART console

By connecting to an Internet ready network

By sharing the Internet connection of your laptop

Powering the system off

To power off the system you have several options. **You should avoid disconnecting the power from the DE0-Nano-SOC board without having shut down the OS gracefully.** In fact you risk an SDCARD corruption which means the system won't boot again.

To shut down the system gracefully you have 2 possibilities:

1. **Pressing the poweroff button** and when the system is off, pulling the power plug.
2. Entering the **sudo poweroff** command in the serial terminal or SSH console.
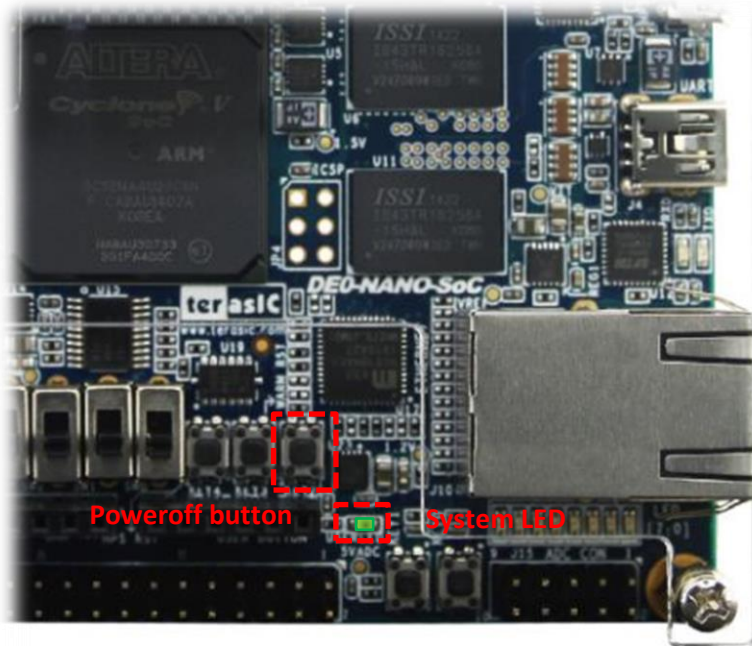
"During the power down procedure, the System LED will be fully ON. Once the system has been gracefully powered down, the System LED will be OFF."

Figure: Location of the poweroff button the the DE0-Nano-SOC board