

Attention Certifying Agency:

Energy Aware Technology has 2 different versions of its PowerTab MK2 product - a UART and a USB version. Below is the explanation of the differences between the 2 devices.

The PCBs for both devices are identical, we just add USB capability to the USB version by populating more parts on the PCB. In order to add USB functionality, we change the port on the back of the product from a 6-SIP male UART connector to a USB Mini-B connector. We also add a single USB-UART transceiver IC (FTDI FT232R) which allows the device to appear as a USB serial port when connected to a computer. This IC requires a few filter capacitors, a bulk capacitor and a ferrite bead to operate. It generates its own clock frequency internally, and is only powered on when the device is plugged in with a USB cable.

The primary purpose of the USB and UART port on the two versions of the product is to allow for rapid firmware updates for configuration during manufacturing. Using either of these ports, the manufacturer can upload new firmware images to the device, which will then reboot and upgrade itself.

If you have any questions or concerns please contact:

Jon Hallam
jon.hallam@energy-aware.com

or

Lauren Kulokas
lauren.kulokas@energy-aware.com

Thank you,



Lauren Kulokas

Energy Aware Technology Inc.