

WiLink™ 8 Wi-Fi and BT/BLE Pmod Adaptor



Electronics Marketing



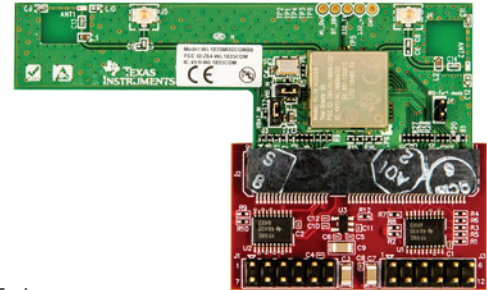
Technology

Instructions for WiLink™ 8 Wi-Fi and BT/BLE Pmod Adaptor

1. Download the applicable Getting Started Guide as follows:
 - a. Navigate to www.microzed.org
 - b. Select Products → "WiLink™ 8 Wi-Fi and BT/BLE Pmod Adaptor"
 - c. Scroll down to Documentation, then click on Getting Started Guide to download
2. Follow the Quick Start instructions in the Appendix of that document.
3. Brief instructions for experienced users (Wi-Fi test, MicroZed standalone)
 - a. On a 4GB microSD card, create a FAT32 first partition labeled BOOT and mount this on Linux host system
 - b. Download latest SD card creation script file from <http://microzed.org/product/wilink-8-adaptor> and copy this to a temporary folder, in the home folder of Linux host system.
 - c. Launch the SD card creation script (host must be connected to Internet!) with the following command:
./microzed-wilink8-ramdisk-SDcard.sh 7010
(7010 or 7020 parameter designates target device. Six files are copied to BOOT partition of microSD card)
 - d. Safely unmount microSD card from Linux host and insert it into MicroZed's SD connector
 - e. Set the boot mode (JP3-JP1) jumpers on MicroZed for SD card mode
 - f. Attach TI WL1835MODCOM8B wireless eval board to J2 COM connector of Avnet WiLink™ 8 Adaptor board.
 - g. Attach WLAN Pmod connector (J1) of Adaptor board to MicroZed's PS-Pmod connector (J5), oriented so that green WiLink™ 8 board is nearest to RJ45 ethernet connector. (Insulate protruding jumpers on Wilink board from the MicroZed board, eg. by means of a business card)
 - h. Connect microUSB cable from computer to USB-UART port of MicroZed (J2). MicroZed will power up, green Power Good LED (D5) illuminates.
 - i. Launch a Serial console (115200 baud) on host and Login as root at the microzed login command-line prompt (after MicroZed boot messages)
 - j. Proceed with commands listed in Quick Start Appendix of Getting Started Guide, to connect to your Wireless Access Point, ie.
ifconfig wlan0 up
iw wlan0 scan | grep SSID
iw wlan0 connect [SSID_name]
udhcpc -i wlan0
 - k. Cut + paste the assigned IP address into address field of internet browser (on computer, tablet or smartphone - connected to same Wireless A/P).



Bootmode = SD



Features

- Dual Pmod-compatible adaptor for Texas Instruments WL1835MODCOM8 (2.4 GHz) and WL1837MODCOM8 (5.0 GHz) wireless boards
- 1.8V level-shifters for all connector I/O, allows connection to any Xilinx VCCIO voltage.
- 1.8V LDO regulator onboard.
- WLAN uses SDIO interface (4bit) routed via PS MIO pins, clocked at 50MHz
- WLAN interface includes an "Out of Band", dedicated hardware interrupt pin
- Bluetooth/BLE uses UART (HCI transport) interface, routed via FPGA's PL EMIO pins
- Separate WLAN_EN and BT_EN enable pins

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