2.4GHz internal Transceiver

C-UBG-DEL4

Installation Manual

Product details:

DUT power setting:

The PA has 7 levels from the lowest power to highest (PA7). Our products use the 2nd level (PA6) .

Caution:

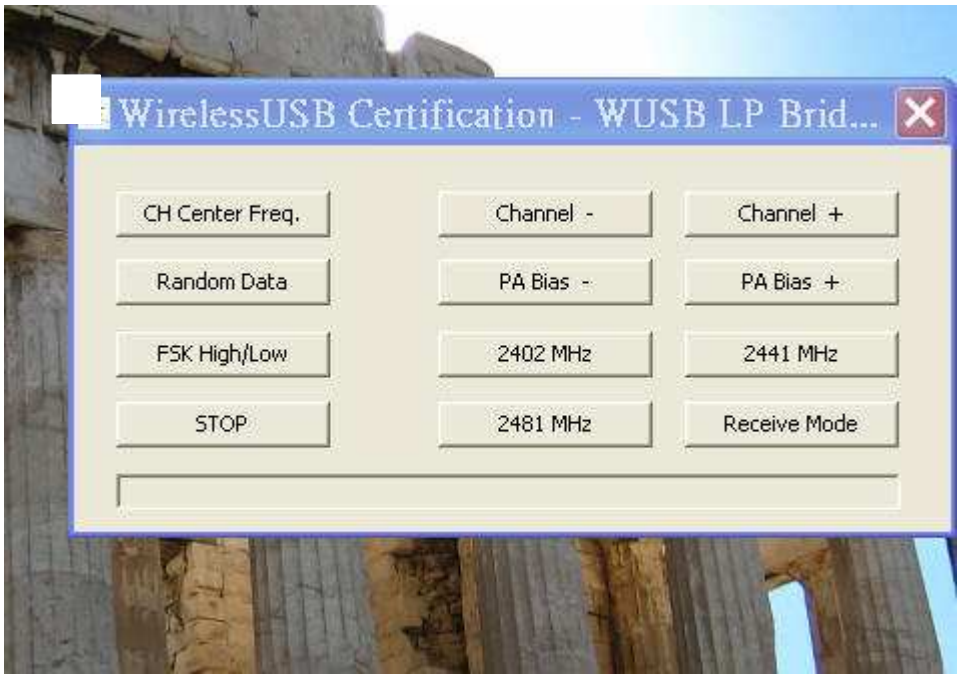
The test program is default that DUT emits max. power (highest level) but all our FW setting only use 2nd level.

Please keep in mind that make sure to lower the power during every single test.

Test procedures:

test program : WUSBLP_Test.exe

after execute it you will see the panel below :



How to use :

1. CW:

1) press " CH Center Freq." button to enter CW mode;

then press " 2402 MHz" or "2441 MHz" or " 2481 MHz"

to choose lowest, middle and highest frequencies;

for other frequencies, please press “channel –“ or “channel +” to select channel.

2) press “ PA Bias – “ once to select output power

PS: don’t press more than once otherwise the power won’t be correct.

The proper way to make sure that the power setting is right:

Press “ PA Bias + “ first to let it max. power and then press “ PA Bias – “ to enter the correct setting

3) if one wants to cease CW mode, please press “ STOP”

2. Modulated signal:

1) press “Random Data” to have modulated signal;
then press " 2402 MHz" or "2441 MHz" or " 2481 MHz"
to choose lowest, middle and highest frequencies;
for other frequencies, please press “channel –“ or “channel +” to select channel.

2) press “ PA Bias – “ once to select output power
PS: don’t press more than once otherwise the power won’t be correct.
The proper way to make sure that the power setting is right:
Press “ PA Bias + “ first to let it max. power and then press “ PA Bias – “ to enter the correct setting
3) if one wants to cease modulated mode, please press “ STOP”

3. receiving mode:

Just press “ Receive Mode “ to enter receiving mode.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device is intended only for OEM integrators under the following conditions:

The antenna must be installed such that 20 cm is maintained between the antenna and users, and

The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device

emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: “Contains TX FCC ID: JNZCUBGDEL4”.

Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the users manual of the end product which integrate this module.

The users manual for OEM integrators must include the following information in a prominent location “ IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Statement

Operation is subject to the following two conditions:

1) this device may not cause interference and

2) this device must accept any interference, including interference that may cause undesired operation of the device

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NCC 警語 ：

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

本模組於取得認證後將依規定於模組本體標示審合格籤，並要求平台上標示「本產品內含射頻模組：ID 編號」