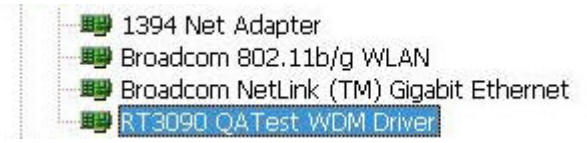
LITEON
Technology Corp.

How to use RT3090PCIE QA test tool

Step1. Install MFG Drivers in the "**QA_RT3x9x V1.5.4.0**" folder

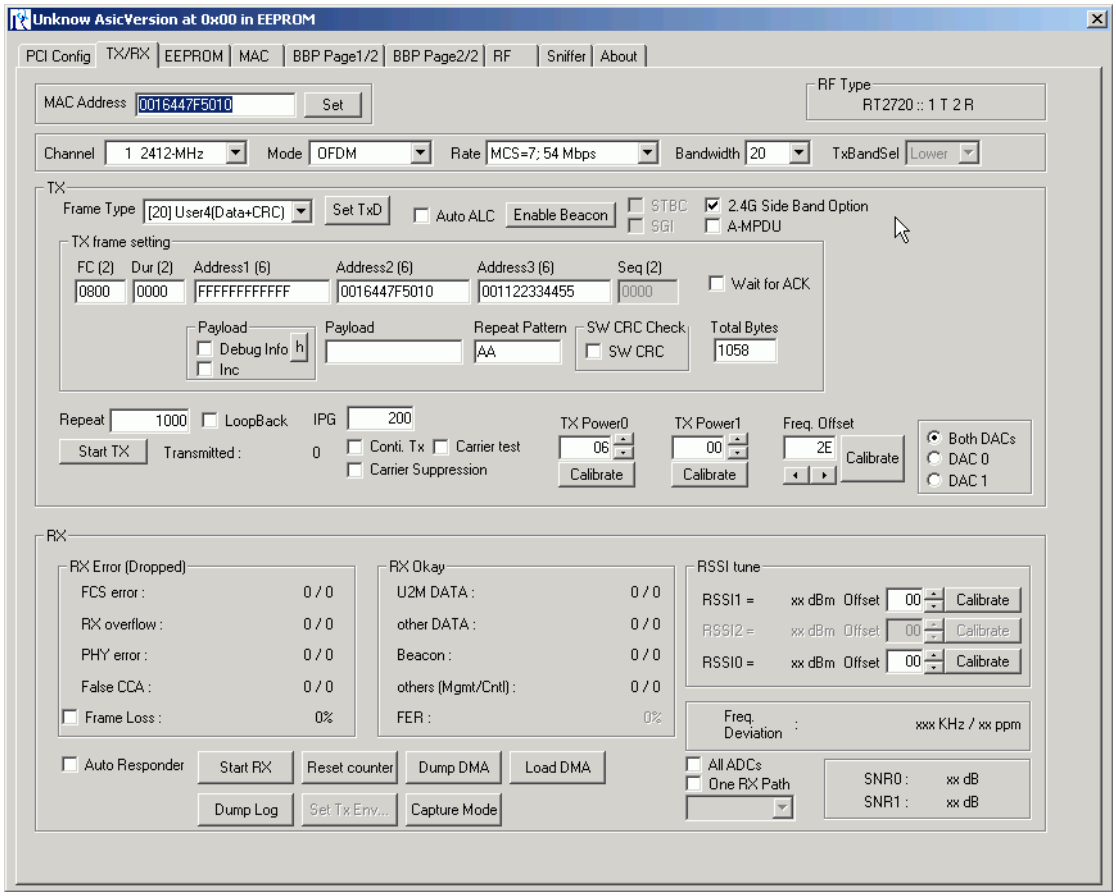
Step2. Check the Device in " Device Manager "



Step3.

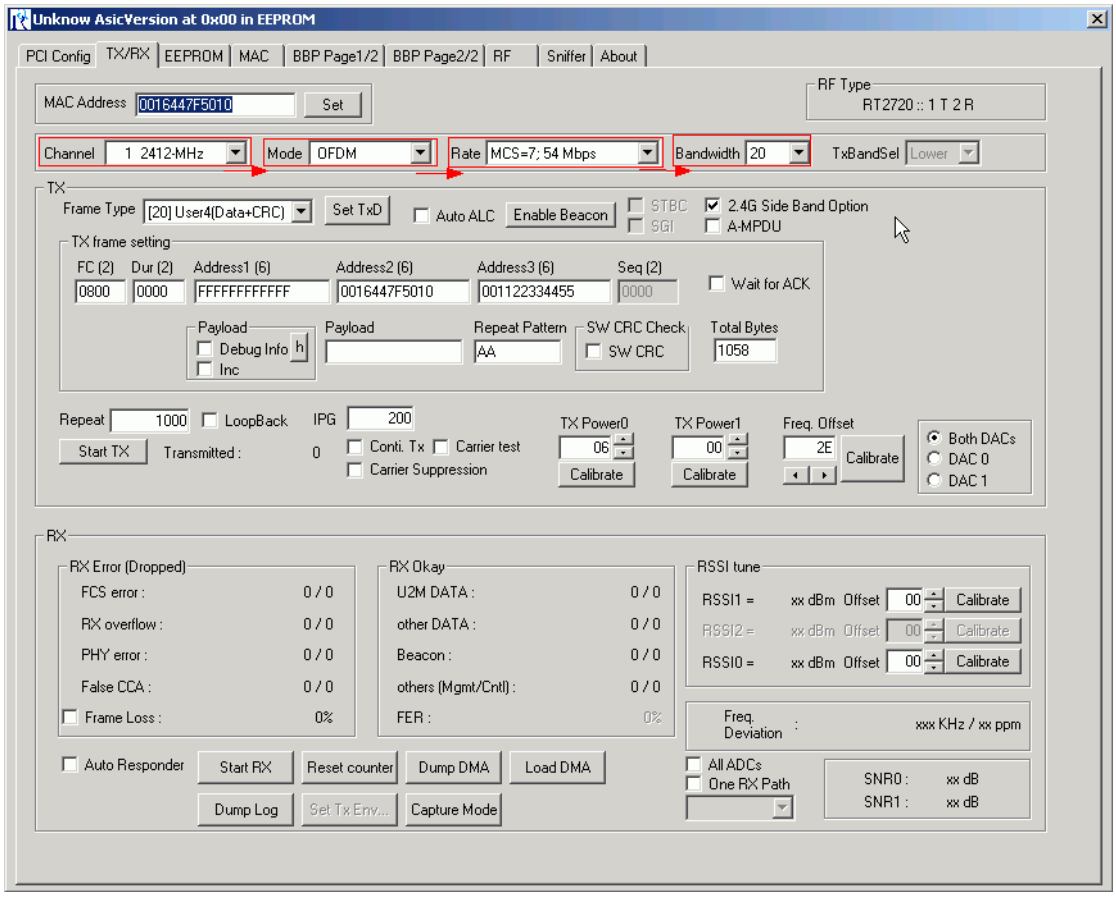
A. Run the test program "**RT3x9x QA.exe**",

B. Click the "OK" when pops up the dialog box.


Unknow AsicVersion at 0x00 in EEPROM
PCI Config
TX/RX
EEPROM
MAC
BBP Page1/2
BBP Page2/2
RF
Sniffer
About
MAC Address
0016447F5010
Set
RF Type
RT2720 :: 1 T 2 R
Channel
1 2412-MHz
Mode
OFDM
Rate
MCS=7; 54 Mbps
Bandwidth
20
TxBandSel
Lower
TX
Frame Type
[20] User4(Data+CRC)
Set TxD
Auto ALC
Enable Beacon
STBC
SGI
2.4G Side Band Option
A-MPDU
TX frame setting
FC (2)
Dur (2)
Address1 (6)
Address2 (6)
Address3 (6)
Seq (2)
0800
0000
FFFFFFFFFFFF
0016447F5010
001122334455
0000
Wait for ACK
Payload
Debug Info
Inc
Payload
Repeat Pattern
AA
SW CRC Check
SW CRC
Total Bytes
1058
Repeat
1000
LoopBack
IPG
200
Start TX
Transmitted :
0
Conti. Tx
Carrier test
Carrier Suppression
TX Power0
06
Calibrate
TX Power1
00
Calibrate
Freq. Offset
2E
Calibrate
Both DACs
DAC 0
DAC 1
RX
RX Error (Dropped)
FCS error :
0 / 0
RX overflow :
0 / 0
PHY error :
0 / 0
False CCA :
0 / 0
Frame Loss :
0%
RX Okay
U2M DATA :
0 / 0
other DATA :
0 / 0
Beacon :
0 / 0
others (Mgmt/Cntl) :
0 / 0
FER :
0%
RSSI tune
RSSI1 =
xx dBm
Offset
00
Calibrate
RSSI2 =
xx dBm
Offset
00
Calibrate
RSSI0 =
xx dBm
Offset
00
Calibrate
Freq. Deviation :
xxx KHz / xx ppm
Auto Responder
Start RX
Reset counter
Dump DMA
Load DMA
Dump Log
Set Tx Env...
Capture Mode
All ADCs
One RX Path
SNR0 :
xx dB
SNR1 :
xx dB

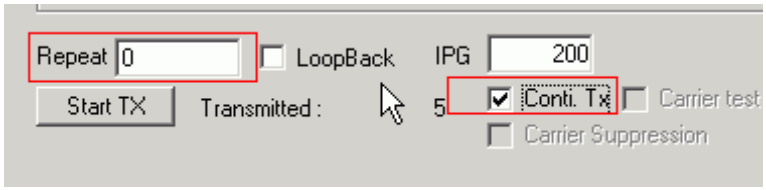
Step4. Configuration-Steps

A. **Channel, Mode, Rate, Bandwidth**

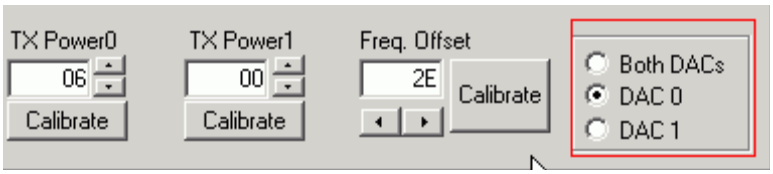


B. Cancel the Select of **“2.4G Side Band Option**”

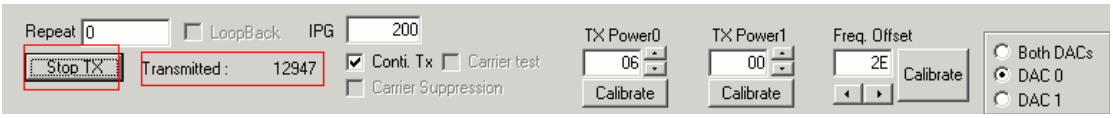
C. Set Repeat “**1000**” to “**0**” for continuous TX Power **Select** the “**Conti. Tx**”



D. Select the **Antenna**



E. Run the "**Start TX**"



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.

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.

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.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

USERS MANUAL OF THE END PRODUCT:

In the users manual of the end product, the end user has to be informed to keep at least 20cm separation with the antenna while this end product is installed and operated. The end user has to be informed that the FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied. The end user has to also be informed that any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

The FCC part 15.19 statement below has to also be available in the manual:
This device complies with Part 15 of 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.

IC Statement

This Class B digital apparatus complies with Canadian ICES-003.

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.

Cet appareil numérique de la classe B conforme á la norme NMB-003 du Canada.

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.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p) is not more than that permitted for successful communication.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 2.93dB. Antennas not included in this list or having a gain greater than 2.93dB are strictly prohibited for use with this device. The required antenna impedance is 50ohms.