

## **WLU5054(RoHS) H/W SPECIFICATIONS**

**Host Interfaces** USB 2.0 compliant

**Form factor** USB module

**Chipset** Broadcom BCM43236B

**Operation Voltage** 5V+/-10%

**Network Standards** IEEE 802.11a/b/g/n

**Modulation Techniques** DBPSK, DQPSK, CCK, BPSK, QPSK, 16QAM, 64QAM, MIMO

**Data Rate and features**

Data rates of up to 54 Mbps for 802.11a/g and 144.4 for 802.11n HT20, 300 Mbps for HT40

**Network Architectures** Infrastructure

**Operating Frequencies**

IEEE 802.11b/g/n: 2412 GHz ~ 2462 GHz

IEEE 802.11a/n: 5180 - 5825GHz

**Operating Channels**

802.11b: 11ch for North America, 13ch for Europe (ETSI),13ch for Japan(ch14 for Japan is optional)

802.11g: 11ch for North America, 13ch for Europe (ETSI)

802.11n: 3ch ~ 9ch ( HT40 ) for North America, 3ch ~11ch ( HT40 ) for Europe (ETSI) and Japan

802.11a/n: 5.180G~5.850G

**RF Output Power**

2.4G:

802.11b: 22~23 dBm, output power

802.11g: 25~26 dBm, output power

802.11n:(HT20/HT40) : 25~29dBm

5G:

802.11a: 22~24dBm, output power

802.11n:(HT20/HT40) : 25~26dBm

UNII Band:

IEEE 802.11a CH36 - CH48 CH52 - CH64 CH100 - CH140

16~19dBm

IEEE802.11an HT20 CH36 - CH48 CH52 - CH64 CH100 - CH140

16~19dBm

IEEE802.11anHT40 CH38 - CH46 CH54 - CH62 CH102 - CH134

16~19dBm

**Receiver sensitivity**

**(PER <10%)**

Legacy 6Mbps: -82dBm

MCS 7 HT20: < -64dBm, MCS15 HT20: < -64dBm

MCS 7 HT40: < -61dBm, MCS15 HT40: < -61dBm

**Antenna Type** Printing Antenna

**RoHS compliant** Yes

**Security** Security support for WPS, WPA2, WPA, WAP and protected management frames

**Software Support** WinXP, Win7

**Temperatures** Operates from 0 to 60 degree C

**Humidity (non-condensing)** 15 to 95% non-condensing

## **SETUP WLAN MODULE CONNECTION**

1. **Install driver in Windows, then you can link to AP Router**  
**5\_102\_98\_37\_WinXP\_mfgtest\_Bcm\_DriverOnly\_BMac**

### **Federal Communication Commission Interference Statement**

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.

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

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

**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.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

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

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) 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

**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 FCC ID: H8N-WLU5054". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

#### **Manual Information To the End User**

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 user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.