

# WUBM-273 ACN

## Standard

802.11ac/b/g/n

## Chipset

Mac/BB/RF MediaTek MT7612U

## Host Interface

USB Type A or 12-pin wafer connector

## Form Factor

USB Module

## Data Rates

802.11a: 6~54Mbps / 802.11b: 1~11Mbps / 802.11g: 6~54Mbps

802.11n: MCS0 ~ MCS15 / 802.11ac: MCS0 ~ MCS9

## Radio

Antenna 2 x U.FL connectors or printed antenna, 2T2R

Operating Frequency ac/n ISM Band: 5.150GHz ~ 5.850GHz  
b/g/n ISM Band: 2.400GHz ~ 2.4835GHz

\*subject to local regulations

Modulation 802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)  
802.11b: DSSS (DBPSK, DQPSK, CCK)  
802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)  
802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)  
802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)

Output Power 802.11b: 15dBm ± 2dBm@11Mbps  
802.11a: 12dBm ± 2dBm@54Mbps / 802.11g: 13dBm ± 2dBm@54Mbps  
802.11gn (HT20): 12dBm ± 2dBm@MCS7 / 802.11gn (HT40): 12dBm ± 2dBm@MCS7  
802.11an (HT20): 11dBm ± 2dBm@MCS7 / 802.11an (HT40): 11dBm ± 2dBm@MCS7  
802.11ac (VHT80): 10dBm ± 2dBm@MCS9

Receive Sensitivity 802.11b: ≤ -76dBm@11Mbps  
802.11a: ≤ -65dBm@54Mbps / 802.11g: ≤ -65dBm@54Mbps  
802.11gn (HT20): ≤ -64dBm@MCS7 / 802.11gn (HT40): ≤ -61dBm@MCS7  
802.11an (HT20): ≤ -64dBm@MCS7 / 802.11an (HT40): ≤ -61dBm@MCS7  
802.11ac (VHT80): ≤ -51dBm@MCS9

## Operating Voltage

DC 5V /0.9A

## Environmental

Temperature Range 0 ~ 40°C (Operating) / -10 ~ 70°C (Storing)

Humidity (Non-Condensing) 10% ~ 85% (Operating) / 5% ~ 90% (Storing)

## Physical Specification

Dimensions 55mm x 25mm x 3.3mm (± 0.5mm)

Weight ≤ 7g

## Software

Driver Windows XP/ Vista, Win 7, Win 8, Linux , Android by request

Security WEP, WPA, WPA2, 802.1x

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 or more 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.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC RF Radiation Exposure Statement: 1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. 2.

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

According to FCC 15.407(e), the device is intended to operate in the frequency band of 5.15GHz to 5.25GHz under all conditions of normal operation. Normal operation of this device is restricted to indoor use only to reduce any potential for harmful interference to co-channel MSS operations.

#### Information to OEM integrator

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 manual of the end product. The user manual which is provided by OEM integrators for end users must include the following information in a prominent location.

1. To comply with IC 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, except in accordance with IC multi-transmitter product transmitter product procedures.
2. Only those antennas with same type and lesser gain filed under this IC ID number can be used with this device.
3. The regulatory label on the final system must include the statement: "Contains IC ID: xxxx".
4. The final system integrator must ensure there is no instruction provided in the user manual or customer documentation indicating how to install or remove the transmitter module except such device has implemented two ways authentication between module and the host system.
5. If the end product integrating this module is going to be operated in 5.15 ~5.25GHz frequency range, the warning statement in the user manual of the end product should include the restriction of operating this device in indoor could void the user's authority to operate the equipment.