

# EWN-1638ACX2AA User manual



## Product function

The module is mainly used for wireless network communication, with built-in wireless network protocol ieee802.11b.g.n.a.ac protocol stack and TCP / IP protocol stack. At the same time, the integrated Bluetooth part of the module supports BT4.2 at most, which is mainly used for short-distance wireless communication and can support most Bluetooth devices.

## Usage method

1. Connect the RF antenna of corresponding frequency band for the module.
2. Insert the module into the PCIe port on the computer motherboard.
3. Use the driver wizard or other relevant driver loading software to update the driver.
4. After the driver update is completed, you can see that there will be corresponding network card drivers in the network adapter column in the device manager. Click the WLAN connection to search for available wireless networks; similarly, after the Bluetooth update driver, you can see the normal Bluetooth icon in the device manager, and the small blue icon appears in the task bar in the lower right corner. Click with the mouse to pop up the menu bar, that is "Add

Bluetooth device" is available.

5. if the WLAN connection shows that it has been connected, it indicates that the connection is successful; after the Bluetooth device is opened, select "opened Bluetooth device" on the dialog box of the computer, and press "next", the computer will automatically search for Bluetooth devices that can be connected. Select the Bluetooth device you want to connect and follow the prompts to connect. After the connection is successful, you can use it.

## **FCC 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 important announcement

Important Note:

### **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 and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Country Code selection feature to be disabled for products marketed to the US/Canada.

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,
3. For all products market in US, OEM has to limit the operation channels in CH1 to CH11 for 2.4G band by supplied firmware programming tool. OEM shall not supply any tool or info to the end-user regarding to Regulatory Domain change. (if modular only test Channel 1-11)

As long as the three conditions above are met, further transmitter testing 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 cannot 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 cannot 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**

The final end product must be labeled in a visible area with the following"

Contains FCC ID: 2AMM6-1638AA

### **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.

**Integration instructions for host product manufacturers according to KDB  
996369 D03 OEM Manual v01**

**2.2 List of applicable FCC rules**

CFR 47 FCC PART 15 SUBPART C has been investigated. It is applicable to the modular transmitter

**2.3 Specific operational use conditions**

This modular is a limited single modular as without his own power supply regulation on the module, If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system, it is powered by PCI-E interface; This modular only install host with PCI-E interface.

**2.4 Limited module procedures**

This modular is a limited single modular as without his own power supply regulation on the module, it is powered by PCI-E interface; This modular only install host with PCI-E interface; host manufacturer have to consult with module manufacturer for the module limiting conditions when integrate the module in the host. module manufacturer should reviews detailed test data or host designs prior to giving the host manufacturer approval.

**2.5 Trace antenna designs**

Not applicable

**2.6 RF exposure considerations**

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.

**2.7 Antennas**

This radio transmitter 2AMM6-1638AA has been approved by Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Antenna No.	Model No. of antenna:	Type of antenna:	Gain of the antenna (Max.)	Frequency range:
BT/2.4GWIFI/5GWIFI Antenna 0	/	External antenna	0dBi	2400-2500MHz 5100-5250MHz 5700-5850MHz
2.4GWIFI/5GWIFI Antenna 2	/	External antenna	0dBi	2400-2500MHz 5100-5250MHz 5700-5850MHz

## 2.8 Label and compliance information

The final end product must be labeled in a visible area with the following"

Contains FCC ID: 2AMM6-1638AA ".

## 2.9 Information on test modes and additional testing requirements

Host manufacturer which install this modular with limit modular approval should perform the test of radiated emission and spurious emission according to FCC part 15C:15.231 and 15.209 requirement, only if the test result comply with FCC part 15.231 and 15.209 requirement, then the host can be sold legally.

## 2.10 Additional testing, Part 15 Subpart B disclaimer

Host manufacturer is responsible for compliance of the host system with module installed with all other applicable requirements for the system such as Part 15