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**AWM27921EU
Iconnect 7921
11ax Module**

ALFA AWM27921EU Iconnect 7921 11ax Module User Guide

Contents

 ALFA AWM27921EU Iconnect 7921 11ax Module

Specifications

- **WiFi Standards:** IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IEEE 802.11ax
- **Wireless Data Rate:** 2.4 GHz rate: up to 287 Mbps 5 GHz rate: up to 601 Mbps
- **Wireless Security:** WEP, WPA, WPA2, WPA3
- **Operating System:** Windows 10, 11 / Linux

Product Usage Instructions

Hardware Installation

- Insert the AWM27921EU into the M.2 interface on your Notebook.

Driver Installation

- Download the driver from **www.alfa.com,** unzip the driver, double-click the Setup.exe, and follow the installation instructions to set up the driver.

Network Connection Settings

- Click on the wireless network icon in the lower right corner of your computer. Select the wireless network you want to connect to and enter the password to establish the connection.

FAQ

Q: Which operating systems are compatible with AWM27921EU?

A: AWM27921EU is compatible with Microsoft Windows 10/11 and Linux operating systems.

Q: What are the wireless security protocols supported by AWM27921EU?

A: AWM27921EU supports WEP, WPA, WPA2, and WPA3 security protocols.

Q: What is the maximum data rate supported by AWM27921EU?

A: The maximum data rate supported is up to 287 Mbps on the 2.4 GHz band and up to 601 Mbps on the 5 GHz band.

Introduction

AWM27921EU is the 802.11ax WiFi module. It supports 2.4 GHz, 5 GHz.It is backward compatible with 802.11 a/b/g/n/ac devices.

Specifications

WiFi Standards

- **IEEE** 802.11a
- **IEEE** 802.11 b
- **IEEE** 802.11g
- **IEEE** 802.11 n
- **IEEE** 802.11ac
- **IEEE** 802.11ax
- **Wireless Data Rate**
    - **2.4 GHz rate:** up to 287 Mbps
    - **5 GHz rate:** up to 601 Mbps
- **Wireless Security**
    - WEP, WPA, WPA2, WPA3
- **Operating System**
    - Windows 10, 11 / Linux

Hardware installation

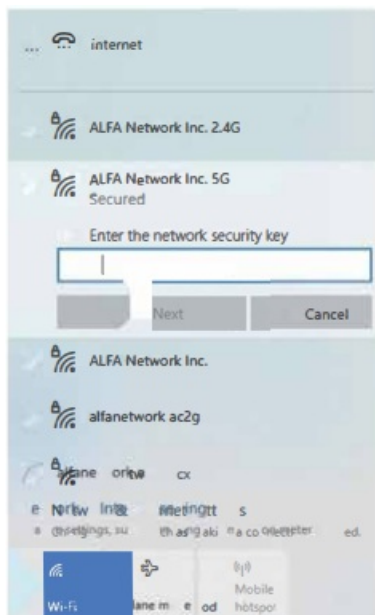- Insert to AWM27921EU to M2. interface to your Notebook

Driver installation

- Downland, the driver from **www.alfa.com** unzip the driver, double-dick the Setup.exe, and then follow the installation to set up.

Network connection settings

- Click the wireless network icon in the lower right corner.
- The computer will display the connectable wireless; click the wireless network you want to connect to and enter the password to connect

- **Chipset** MediaTek MT7921AUN IEEE 802.11 standards a/b/g/n/ac/ax
- **Frequency**
    - 2.4 GHz
    - 5 GHz
- **Data rate 11b:** 1, 2, 5.5, 11 Mbps
    - **11a/g:** 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
    - **11n:** up to 150 Mbps
    - **11ac:** up to 433 Mbps
    - **11ax:** up to 601 Mbps
- **Form factor** M.2 E-key (USB bus)
- **Antenna connector** 2x IPEX (Wi-Fi)

- **Dimensions** 30 x 42 x 4.12 mm
- **Operating temperature** -25°C – 75°C
- **Operation voltage** 3.3 V
- **Power consumption** 755 mA (max.)
- **Operating systems** Microsoft Windows 10/11 Linux

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the 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,
2. this device must accept any interference received, including interference that may cause undesired operation.

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 a 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.

Regulatory Module Integration Instructions

List of applicable FCC rules

CFR 47 FCC PART 15 SUBPART C&E has been investigated. It applies to the modular.

Specific operational use conditions

- This module is stand-alone modular. If the end product will involve Multiple simultaneous transmitting conditions or different operational conditions for a stand-alone modular transmitter in a host, the host manufacturer has to consult with the module manufacturer for the installation method in the end system.
- The module is limited to OEM installation ONLY. The OEM integrators are responsible for ensuring that the end-user has no manual or instructions to remove or install a module.
- **Limited module procedures**: Not applicable
- **Trace antenna designs**: Not applicable

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 a minimum distance 20cm between the radiator& your body.
If the device is built into a host as a portable usage, the additional RF exposure evaluation may be required as specified by 2.1093.

Antennas

- This radio transmitter FCC ID:2AB877921 has been approved by the 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 type:** Dipole Antenna
- **Maximum Antenna gain:** 2.4G WIFI /1.76 dBi, 5G WIFI/1.47dBi

Label and compliance information

The end product must be labeled in a visible area with the following " Contains FCC ID: 2AB877921"

Information on test modes and additional testing requirements

The host manufacturer is strongly recommended to confirm compliance with FCC requirements for the transmitter when the module is installed in the host.

Additional testing, Part 15 Subpart B disclaimer

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

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Documents / Resources

ALFA AWM27921EU Iconnect 7921 11ax Module [pdf] User Guide
AWM27921EU, 2AB877921, AWM27921EU Iconnect 7921 11ax Module, AWM27921EU Module, Iconnect 7921 11ax Module, Iconnect Module, 7921 11ax Module, Module

References

- **User Manual**