



Atheros ESRMKV2C AOS Edge Server Router User Manual

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Atheros ESRMKV2C AOS Edge Server Router



Product Information

Specifications:

- Product Name: AOS Edge Server Router for electricity meters (ESRMKV2C)
- Compliance: FCC Part 15
- Operating Conditions: Indoor use only
- Minimum Distance: 20cm between the radiator and the body
- Antenna Type: WiFi (Dipole), Wi-Sun (PIFA)
- Antenna Connector: WiFi and Wi-Sun both use MMCX
- FCC ID: 2AWD3ESRMKV2C

Product Usage Instructions

Installation:

1. Ensure that the device is placed indoors, away from any sources of interference.
2. Connect the device to a power outlet on a different circuit than the receiver.
3. Place the device at least 20cm away from your body to comply with FCC radiation exposure limits.

Antenna Installation

The device supports the following antennas:

- WiFi Antenna: Dipole
- Wi-Sun Antenna: PIFA

Ensure that the antenna is installed in a way that maintains a minimum distance of 20cm between the antenna and users.

Labeling:

The end-product must be labeled with the following information in a visible area:

“Contains FCC ID: 2AWD3ESRMKV2C”

FAQ (Frequently Asked Questions)

Q: What is the FCC ID for this product?

A: The FCC ID for this product is 2AWD3ESRMKV2C.

Q: Can I use this device outdoors?

A: No, this device is intended for indoor use only.

Q: What is the minimum distance I should maintain between my body and the device?

A: To comply with FCC radiation exposure limits, you should maintain a minimum distance of 20cm between your body and the device.

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.

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. This module is intended for OEM integrators only. Per FCC KDB 996369 D05 OEM Manual v01 guidance, the following conditions must be strictly followed when using this certified module:

KDB 996369 D05 OEM Manual v01 rule sections:

List of applicable FCC rules

This module has been tested for compliance to FCC Part 15

Summarize the specific operational use conditions

The module is installed in end-product for mobile RF exposure use condition. Any other usage conditions such as co-location with other transmitter(s) or being used in a portable condition will need a separate reassessment through a class II permissive change application or new certification.

Limited module procedures

There are 2 housing for the limited module. (same as module request letter)

Trace antenna designs

Not applicable.

RF exposure considerations

This equipment complies with FCC mobile radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. If the module is installed in a portable host, a separate SAR evaluation is required to confirm compliance with relevant FCC portable RF exposure rules.

Antennas

The following antennas have been certified for use with this module; antennas of the same type with equal or lower gain may also be used with this module. The antenna must be installed such that 20 cm can be maintained between the antenna and users.

- **Antenna Type:** WiFi: Dipole , Wi-Sun: PIFA
- **Antenna connector:** WiFi & Wi-Sun both are MMCX

Label and compliance information

The end-product must be labeled in a visible area with the following: "Contains FCC ID: 2AWD3ESRMKV2C". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

Information on test modes and additional testing requirements

This transmitter is installed in product for mobile RF exposure condition and any co-located or simultaneous transmission with other transmitter(s) or portable use will require a separate class II permissive change reevaluation or new certification.

Additional testing, Part 15 Subpart B disclaimer

This transmitter module is tested as a subsystem and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The final host will still need to be reassessed for compliance to this portion of rule requirements if applicable.

As long as all 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 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.

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.

OEM/Host manufacturer responsibilities

OEM/Host manufacturers are ultimately responsible for the compliance of the Host and Module. The final product must be reassessed against all the essential requirements of the FCC rule such as FCC Part 15 Subpart B before it can be placed on the US market. This includes reassessing the transmitter module for compliance with the Radio and EMF essential requirements of the FCC rules. This module must not be incorporated into any other device or system without retesting for compliance as multi-radio and combined equipment

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References

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