

《Wireless Module User Manual》

VER:	V1.0
Product name:	Network Module For Conference Display
Model No.	VAX8852-UM

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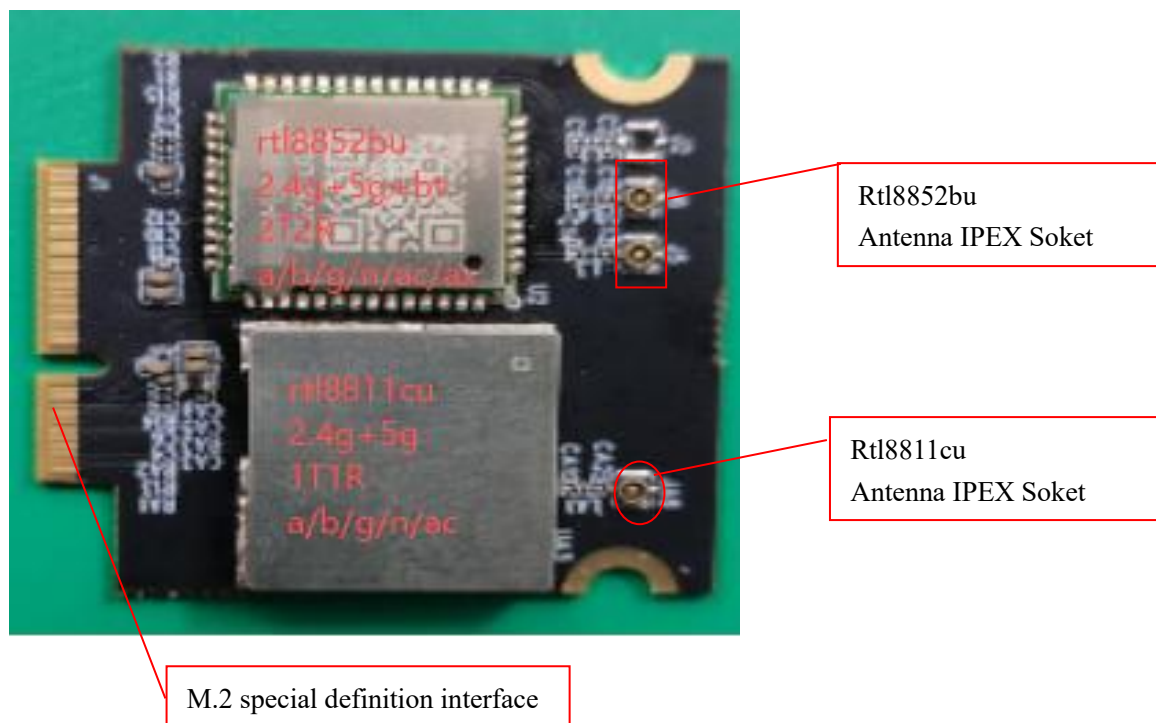
1、Product Description

As a customized dual-module wireless module, this product uses a standardized M.2 interface, which highly matches customer motherboard requirements.

The module's dual network card combination design meets users' dual demands for performance and functionality. This module is equipped with WiFi 6 wireless communication technology, supporting IEEE 802.11a/b/g/n/ac/ax protocols, and featuring WiFi 6 + Bluetooth 5.2 wireless functions. It provides a 20MHz/40MHz/80MHz coexistence mechanism, complete dual-band (2.4GHz and 5GHz) 2×2 MIMO MAC/PHY/wireless system-on-chip, capable of achieving transmission speeds of up to 1201Mbps in 802.11AX mode with 80MHz bandwidth in wireless local area networks.

Meanwhile, the module also provides a WiFi 5 communication module conforming to wireless network standards, supporting IEEE 802.11a/b/g/n/ac protocols, featuring dual-band WiFi wireless functions, providing a 20MHz/40MHz/80MHz coexistence mechanism, and complete dual-band (2.4GHz and 5GHz) WIFI 1×1 wireless system-on-chip.

2、Hardware interface introduce



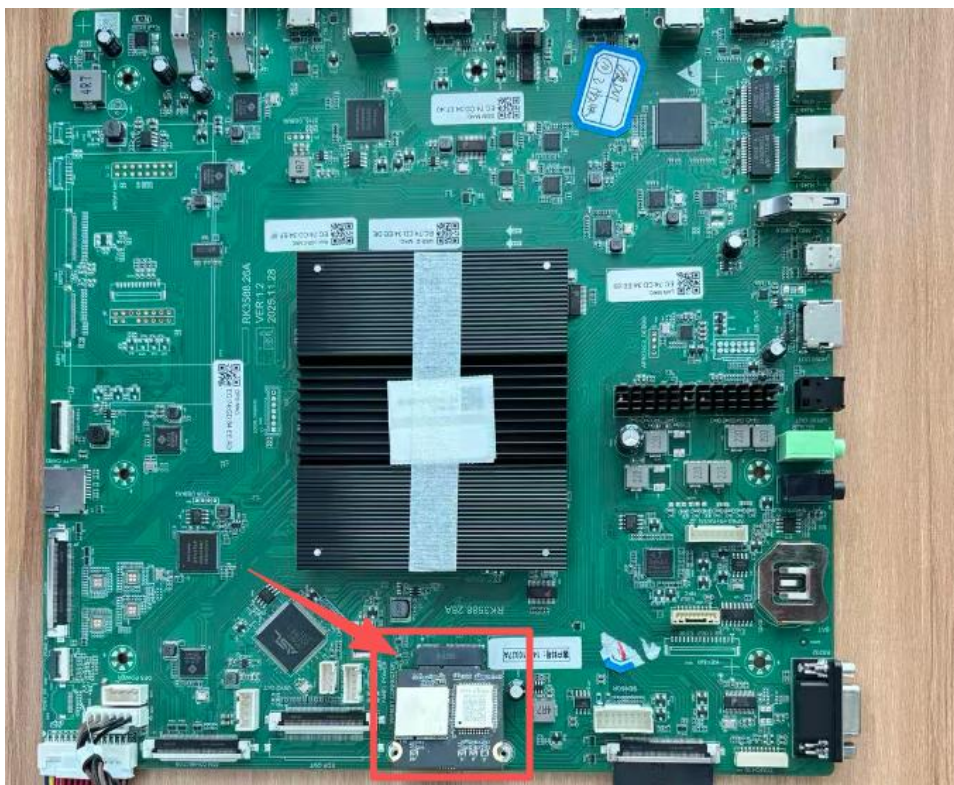
3、 Operation module

The module is build-in wireless part of interactive panel.

The module is a custom-made device ,use for panel product.

As follow picture:

- 1) you should inset module device in M.2 interface socket on base circuit board,and also use special fixtures to test in certification Lab.
- 2) Then secure the screws on both sides. You need to ensure that the module is installed in the correct position, with good contact, and that the system can properly recognize the hardware.
- 3) At the same time, you must install 3 pieces antenna in product structure and andriod device OS can receive a better signal.



FCC Notice:

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.

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.

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

RF Exposure

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

4. OEM Integration Instructions (Per KDB 996369 D03)

This module is intended for use by OEM integrators only. In accordance with FCC KDB 996369 D03 OEM Manual v01, the following conditions must be strictly observed when using this certified module.

4.1 List of Applicable FCC Rules

This module has been tested for compliance with the following FCC rule parts: FCC Part 15 Subpart C (for 2.4GHz band)

FCC Part 15 Subpart E (for 5GHz band)

4.2 Specific Operational Use Conditions

This module has been tested for standalone mobile RF exposure use conditions. It is designed to be installed inside the final host product and operated by professional installers.

The following conditions must be met:

The module must not be co-located with any other transmitter or antenna.

A minimum separation distance of 20cm must be maintained between the radiator and the user's body during installation and operation.

This module is approved for use in mobile devices only (not for portable conditions).

 **IMPORTANT NOTE:** If the above conditions cannot be met (e.g., co-location with another transmitter or use in a portable condition), the FCC authorization is no longer valid and the FCC ID cannot be used on the final product. In such cases, the OEM integrator must re-evaluate the final product and apply for a separate FCC authorization.

4.3 Limited Module Procedures

Not applicable. The module is a Single module and complies with the requirement of FCC Part 15.212.

4.4 Antenna Design Requirements

This module may only operate with the antennas with which it has been certified. The antenna or any other part of the module must not be modified, as this will invalidate the module certification and require a new application for the final product.

Antenna No.	Model No.	Type of antenna	Gain	Frequency range
Antenna 1	120410064A	PIFA antenna	2.51dBi	2402-2480MHz
Antenna 2			2.51dBi	2412-2462MHz
			2.76dBi	5150-5850MHz
Antenna 3	120410061A	PIFA antenna	2.95dBi	2412-2462MHz
			3.55dBi	5150-5850MHz

4.5 RF Exposure Considerations

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

If the module is installed in a portable host device, additional SAR evaluation is required to confirm compliance with FCC portable RF exposure rules.

4.6 Label and Compliance Information

The final host product must display the following statement in a visible area: Contains FCC ID: 2ACYT-VAX8852

If the product dimensions make it difficult to place this label on the host device, the statement may be placed in the user manual, or on the product packaging or an accompanying label.

The user manual of the final host product must also include the following warning: FCC CAUTION

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

4.7 Information on Test Modes and Additional Testing Requirements

Test modes should take into consideration the different operational conditions of the stand-alone modular transmitter in the host, as well as

scenarios involving multiple simultaneously transmitting modules or other transmitters.

4.8 Additional Testing, Part 15 Subpart B Disclaimer

This transmitter module is granted FCC authorization only for the specific rule parts listed in the FCC grant (i.e., the FCC transmitter rules). The host product manufacturer is responsible for compliance with any other FCC rules not covered by the modular transmitter certification.

The final host product still requires compliance testing for Part 15 Subpart B (unintentional radiator) after the module is installed.

4.9 EMI Considerations

It is recommended that RF design engineering testing and evaluation be performed when the module's layout may affect host components or create non-linear interactions, in order to ensure that no additional non-compliant emissions are generated.

4.10 How to Make Changes

This module is a limited modular approval. Any changes or modifications made to the module may invalidate the certification and require a new application.

OEM Integrator Responsibilities

As the OEM/host manufacturer, you bear the ultimate responsibility for the compliance of the final product:

Re-evaluation: The final product must undergo re-testing for FCC Part 15 Subpart B compliance.

Verification Testing: It is recommended to perform basic verification tests on the module installed in the host, including fundamental and spurious emission measurements.

Compliance with Integration Instructions: The module must be installed and used strictly in accordance with these instructions.

Provision of Compliance Information: The final product user manual must include all required regulatory statements and warnings as specified in this document.

 **Note to OEM Integrators:** OEM integrators must not provide end users with instructions on how to install or remove the RF module. The end-user manual should contain all regulatory information/warnings as specified in this document.

Out-of-Band and Spurious Emissions: The host manufacturer is responsible for ensuring that all radiated emissions, including those from simultaneous operation, comply with the limits of Part 15 when the module is installed in the final host product.