

User Manual of CBAS210R

1. Device name : Central BLE Module

2. Model name : CBAS210R

3. General Information

- Shape : PCBA Module type
- Comm. Protocols : BLE
- Weights & Dimensions : Width 20 * Depth 35 * Height 2.9 mm
- Product Weight : approximately 2.6g
- Operation Temp : -20 °C ~ 70 °C
- Power Source : DC 5.0V

The CBAS210R is a BLE Transceiver for electric stove networks.

Connected to the electric stove ventilator, it acts as a pathway between remote home automation.

Networking

The CBAS210R is applied RTL8762CMF BLE Transceiver of Realtek.

The BLE transceiver delivers the information received from the remote control device to the main board with 5pin connector.

Power source

The CBAS210R is powered by an external [5.0VDC@2A](#) regulated power source with 5pin connector.

Expansion Ports

The 5pin connector connects the main control board.

4. Electrical Properties

Parameter	Description
Modulation type	GFSK
Modulation rate	1Mbps, 2Mbps 125kbps, 500kbps
Channel interval	2MHz
Antenna gain(Pattern Antenna)	1.56dBi
Occupancy bandwidth	$\leq 2\text{MHz}$
Frequency range	2400MHz ~ 2483.5MHz
Carrier frequency tolerance	$\leq 20 \times 10^{-6}$

5. Notice FCC/IC Statement

Approval Statement

FCC approval

This device complies with Part 15 of the FCC's 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 undesirable operation.
- To satisfy FCC exterior labeling requirements, the following text must be placed on the exterior of the end product.

The host device must be labeled to display FCC ID of the module, for example: **Contains Transmitter module FCC ID: A3LCBAS210R**

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:

- 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.
- The OEM integrator is responsible for ensuring the end-user has no manual instruction to remove or install module.
- The module is limited to installation in mobile or fixed applications.

IC approval

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). L'opération est soumise aux deux conditions suivantes:

- (1) cet appareil ne peut causer d'interférences, et*
- (2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.*

The host device must be labeled to display the Industry Canada certification number of the module.

Contains transmitter module IC:649E-CBAS210R

Le dispositif d'accueil doivent être étiquetés pour afficher le numéro de certification d'Industrie Canada du module.

Contient module émetteur IC :649E-CBAS210R

FCC/IC RF exposure statements:

This device complies with FCC & IC radiation exposure limits set forth for an uncontrolled environment. This module may not be co-located with any other transmitters or antennas. The antenna must be installed such that 20cm is maintained between the antenna and users.

Cet appareil est conforme aux limites de la FCC et IC exposition aux radiations dans un environnement non contrôlé. L'antenne doit être installée de telle sorte que 20 cm est maintenue entre l'antenne et les utilisateurs . Ce module ne peut pas être co-localisé avec d'autres émetteurs ou des antennes .

User Information

Caution: Any changed or modifications not expressly approved by the party responsible for compliance could void the user`s authority to operate this equipment.

Attention: *Toute changé ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler l'utilisateur `autorité de faire fonctionner cet équipement.*

IMPORTANT NOTE FOR OEM INTEGRATOR

This is single module which has been tested and complied with Part 15.247, and RSS-247 requirements.

Host device needs to be labeled with module's FCC/IC IDs, for example, "Contains Transmitter module FCC ID: A3LCBAS210R , IC:649E-CBAS210R ".

This device is intended only for OEM integrators under the following conditions:

- 1) This module may not be co-located with any other transmitters or antennas.
- 2) The antenna must be installed such that 20cm is maintained between the antenna and users.
- 3) Only the antenna type and antenna gain documented in the module FCC/IC reports can be used.

As long as above conditions are met, further test or certification will not be required. However, the OEM integrator is still responsible for host product evaluation or any additional compliance requirements with this module installed. In the event that these conditions cannot be met, then the FCC & IC authorizations are 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 this module and obtaining separate FCC & IC authorizations.

5) Additional testing, Part 15B disclaimer

This module only complied with FCC 15.247 requirements as listed on the grant, and therefore, the host product manufacturer is responsible for FCC Part 15B compliance testing with the module installed.