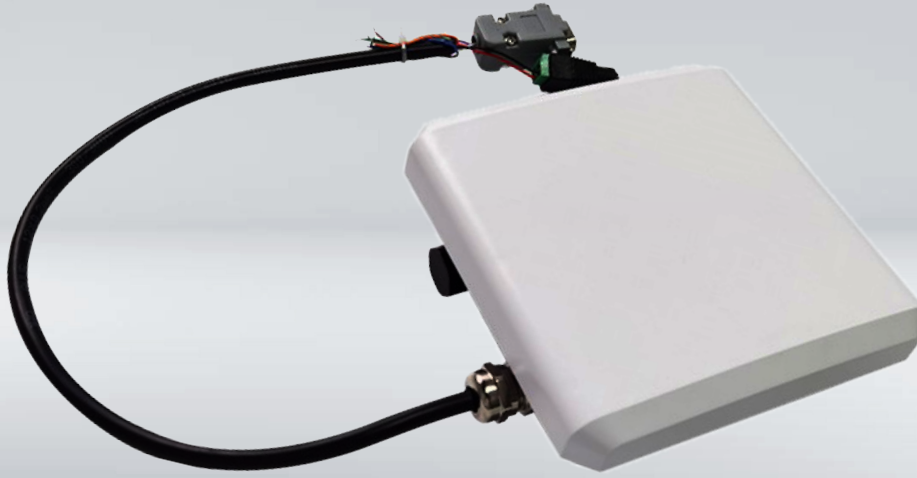




# RGR719 Industrial UHF RFID Integrated Reader

## Features:

1. Self-intellectual property;
2. Support ISO18000-6C (EPC C1G2) protocol tag;
3. 865~868MHz, 902~928MHz frequency band (frequency customization optional by Soft);
4. FHSS or Fix Frequency transmission;
5. RF output power up to 26dBm (adjustable);
6. 4dBi Metal Antenna with effect distance up to 0~5.0m\*;
7. Support active mode, answer mode, trigger-activating and password work mode;
8. Low power dissipation with single +12V DC power supply;
9. Support RS232, RS485 interface, RJ45;
10. One Relay (Optional) can control Beep, Motor, Light.
11. Support ModBus (only RS232, RS485, RJ45 interface);
12. Support for White List and Read By Time\*;

\* Effective distance depends on antenna, tag and environment.

## General Description:

- Model Number: RGR719
- Size: 133 x 133 x 54mm
- RGR719 is a high performance UHF RFID Trash Can Manage Reader. It is designed mainly for industrial production process control system.

## Application:

- Trash Can Manage
- Industrial production process control
- Production flew-line management
- Attendance management and more
- AGV Car
- Attendance management

## Product Mode Explanation:

| Model                                      | Interface                       |
|--------------------------------------------|---------------------------------|
| RGR719                                     | Standard(RS232, RS485, Trigger) |
| RGR719T                                    | Standard with RJ45              |
| RGR719TP                                   | Standard with RJ45&POE          |
| RGR719R                                    | Standard with Relay             |
| RGR719W                                    | Standard with WIFI              |
| RGR719U                                    | Standard with USB               |
| RGR719G                                    | Standard with 4G                |
| -T: RJ45 -W: WIFI -R: Relay -U: USB -G: 4G |                                 |

## Characteristics:

Absolute Maximum Rating

| ITEM            | SYMBOL           | VALUE   | UNIT |
|-----------------|------------------|---------|------|
| Power Supply    | VCC              | 24      | V    |
| Operating Temp. | T <sub>OPR</sub> | -20~+60 | °C   |
| Storage Temp.   | T <sub>STR</sub> | -40~+85 | °C   |

## Electrical and Mechanical Specification

Under TA=25°C, VCC=+12V unless specified

| ITEM                | SYMBOL         | MIN | TYPE | MAX | UNIT |
|---------------------|----------------|-----|------|-----|------|
| Power Supply        | VCC            | 8   | 12   | 24  | V    |
| Current Dissipation | I <sub>c</sub> |     | 400  | 600 | mA   |
| Frequency           | FREQ           | 865 |      | 928 | MHz  |

## Product Technical Parameters

### Physical parameters

|                |                         |
|----------------|-------------------------|
| Dimensions     | 133x133x54mm            |
| Net Weight     | 2.0Kg                   |
| Gross Weight   | 2.5Kg                   |
| Package size   | 39*21*10cm              |
| Carton size    | 49*40*23cm, 5pcs/carton |
| Shell material | ABS and Metal           |
| Color          | White                   |

### Environmental parameters

|                       |                           |
|-----------------------|---------------------------|
| Operation Temperature | -20~+60°C                 |
| Storage Temperature   | -40~+85%                  |
| Humidity              | 5%~95% RH, Non-condensing |
| Waterproof Rank       | IP67                      |

### Type

|              |                                 |
|--------------|---------------------------------|
| Model Number | RGR719                          |
| Type         | UHF RFID rash Can Manage Reader |

## Performance

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frequency</b>        | 902~928MHz,860~868MHz(frequency customization optional)                                                                                                      |
| <b>Ant.</b>             | 4 dBi PCB Antenna                                                                                                                                            |
| <b>RF Power</b>         | 0 - 26dBm                                                                                                                                                    |
| <b>Read Distance *</b>  | 0-5.0m * Effective distance depends on antenna, tag and environment.                                                                                         |
| <b>Write Distance *</b> | 0-2.0m * Effective distance depends on antenna, tag and environment.                                                                                         |
| <b>Read Rate</b>        | 200cnt / second                                                                                                                                              |
| <b>Read Type</b>        | ISO18000-6C (EPC Gen2)                                                                                                                                       |
| <b>Reading Prompt</b>   | Buzzer                                                                                                                                                       |
| <b>Working Voltage</b>  | DC +9 - 24V, 5W                                                                                                                                              |
| <b>Work Mode</b>        | Active mode, Answer mode, Trigger mod, Password mode                                                                                                         |
| <b>Communication</b>    | RS232, RS485, WG26, WG34, Trigger, Relay(Optional), RJ45(Optional), WIFI(Optional),USB(Optional),4G(Optional)                                                |
| <b>Read Function</b>    | Support for White List and Read By Time*                                                                                                                     |
| <b>Net</b>              | RJ45 support TCP Client/Server,,HTTP, MQTT, Modbus, DNS, DHCP.<br>WIFI support TCP Client,HTTP, MQTT.<br>4G support TCP Client,HTTP, MQTT.<br>LLRP(Optional) |

## SDK

|            |                                                                                                |
|------------|------------------------------------------------------------------------------------------------|
| <b>SDK</b> | Support X86 & X64, C++, C#, VB, Delphi, Linux, ARM, Python, NodeJS, QT, JAVA, Android, Modbus. |
|------------|------------------------------------------------------------------------------------------------|



## Interface

| Item          | Comment           | Item          | Comment                    |
|---------------|-------------------|---------------|----------------------------|
| <b>Red</b>    | VCC (DC 9V - 24V) | <b>Green</b>  | Wiegand DATA1              |
| <b>Black</b>  | GND               | <b>Gray</b>   | GND                        |
| <b>White</b>  | RS232 TXD         | <b>Pink</b>   | RS485 A+                   |
| <b>Purple</b> | RS232 RXD         | <b>Orange</b> | RS485 B-                   |
| <b>Brown</b>  | GND               | <b>Aqua</b>   | Trigger input+ (TTL level) |
| <b>Yellow</b> | Wiegand DATA0     | <b>Blue</b>   | Trigger input- (TTL level) |