

## RGR650 Industrial UHF RFID Integrated Reader



# RGR650 Industrial UHF RFID Integrated Reader

#### Features:

- 1. Base on the domestic high-performance RF chip design, 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. 3dBi Circular Antenna with effect distance up to 0~350cm\*;
- 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,Wiegand,Trigger interface, (Relay, USB, RJ45, WIFI,4G) Optional;
- 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\*;
- 13. Support read 'ON' temperature tag\*; UHF LED tag\*.
- \* Effective distance depends on antenna, tag and environment.

## General Description:

- Model Number: RGR650
- Size: 90 x 94 x 40mm
- RGR650 is a high performance UHF RFID Industrial Reader. It is designed mainly for industrial production process control system.

## **Application:**

- Industrial production process control
- · Production flew-line management
- · Attendance management and more
- AGV Car
- Tobacco Management
- · Attendance management





# RGR650 Industrial UHF RFID Integrated Reader

# **Product Mode Explanation:**

Model	Interface
RGR650	Standard(RS232, RS485,Trigger)
RGR650T	Standard with RJ45
RGR650R	Standard with Relay
RGR650W	Standard with WIFI
RGR650U	Standard with USB
RGR650G	Standard with 4G
RGR650G	Standard with 4G
-T: RJ45 -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.	Topr	-20~+60	°C
Storage Temp.	Tstr	-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	lc		400	600	mA
Frequency	Freq	865		928	MHz

## **Product Technical Parameters**

### Physical parameters

Dimensions	90x94x40mm
Net Weight	1.5Kg
Gross Weight	2.0Kg
Package size	23*16*13cm
Carton size	48*32.5*28.5cm, 8pcs/carton
Shell material	ABS and Metal
Color	Black

### **Environmental parameters**

Operation Temperatur	-20~+60°C	
Storage Temperature	-40~+85%	
Humidity	5%~95% RH, Non-condensing	
Waterproof Rank	IP65	
Туре		
Model Number Ro	RGR650	
Type	UHF RFID Industrial Reader	





# RGR650 Industrial UHF RFID Integrated Reader

#### Performance

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Frequency	902~928MHz,860~868MHz(frequency customization optional)
Ant.	3 dBi Antenna
RF Power	0 - 26dBm
Read Distance *	0-350cm * Effective distance depends on antenna, tag and environment.
Write Distance *	0-150cm * Effective distance depends on antenna, tag and environment.
Read Rate	200cnt / second
Read Type	ISO18000-6C (EPC Gen2)
Reading Prompt	Buzzer
Working Voltage	DC +9 - 24V, 5W
Work Mode	ctive mode, Answer mode, Trigger mod, Password mode
Communication	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*
Other ta g type	Support read 'ON' temperature tag*; UHF LED tag*.
Net	RJ45 support TCP Client/Server,,HTTP, MQTT, Modbus, DNS, DHCP. WIFI support TCP Client,HTTP, MQTT. 4G support TCP Client,HTTP, MQTT. LLRP(Optional)

#### SDK

SDK Support X86 & X64, C++, C#, VB, Delphi, Linux, ARM, Python, NodeJS, QT, JAVA, Android, Modbus.











#### Interface

Item	Comment
Red	VCC (DC 9V - 24V)
Black	GND
White	RS232 TXD
Purple	RS232 RXD
Brown	GND
Yellow	Wiegand DATA0

Item	Comment	
Green	Wiegand DATA1	
Gray	GND	
Pink	RS485 A+	
Orange	RS485 B-	
Aqua	Trigger input+ (TTL level)	
Blue	Trigger input- (TTL level)	