



RFGate RGR6X Ultra-Rugged Fixed UHF RFID 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: RGR609
- Size: 133 x 133 x 54mm
- RGR6X 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:

Interface
Standard(RS232, RS485, Trigger)
Standard with RJ45
Standard with RJ45&POE
Standard with Relay
Standard with WIFI
Standard with USB
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 _{OPR}	-20~+60	°C
Storage Temp.	T _{STR}	-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 _c		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°C
Humidity	5%~95% RH, Non-condensing
Waterproof Rank	IP67

Type

Model Number	RGR6X
Type	UHF RFID rash Can Manage Reader

Performance

Frequency	902~928MHz,860~868MHz(frequency customization optional)
Ant.	4 dBi PCB Antenna
RF Power	0 - 26dBm
Read Distance *	0-5.0m * Effective distance depends on antenna, tag and environment.
Write Distance *	0-2.0m * 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	Active mode, Answer mode, Trigger mod, Password mode
Communication	RS232, RS485, WG26, WG34, Trigger, Relay(Optional), RJ45(Optional), WIFI(Optional),USB(Optional),4G(Optional)
Read Function	Support for White List and Read By Time*
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.
------------	--

 python™
 





Interface

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