

## ☰ RGI 88S Specification

- Industrial design with power supply, direct-current 9 ~ 24V wide voltage input;
- The shell is made of high-strength aluminum alloy, solid and durable, which is good for heat dissipation and long-term outdoor work;
- The integrated chip for RF transmission is low power consumption& high integrated &high stability;
- RF receives adopts three-stage amplifying receiving circuit that greatly improves the receiving sensitivity of RF signal;
- Power amplification uses high-power, high-efficiency famous RFMD amplifiers to ensure RF reading and writing fluent;
- STM Cortex-M3 core CPU processor posses ultra-low power consumption, ultra-high performance, make the reader program and interface run more stable and faster;

### UHF RFID Parameter

RFID reader module	RGR brand
Frequency range	902~928MHz or 865~868MHz (customization optional)
Antenna gain	12dbi Circular polarization antenna
Protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
RF output	30dBm ( $\pm 1$ dBm) adjusted
Output power adjustment	1dBm (set by Vanch software)
Reading distance	Reading distance 12~20M (test tag Impinj E41b) ; writing distance>50cm
Multiple tag reading rate	>50pieces/second (peak)
Region support	America, Canada and other FCC Part 15 compliant regions Europe and other areas that comply with ETSI EN 302 308 China, India, Japan, Korea, Malaysia, Taiwan

### Electric parameter

CPU control chip	ARM (STM32F107 Cortex-M3)
Communication Interface	RJ45, RS485, RS232, Wiegand interface; wireless WIFI, Bluetooth 4.2 <span>Optional ✓</span>
Bluetooth	Bluetooth 4.2 <span>Optional ✓</span>
WiFi	IEEE802.11b/g/n <span>Optional ✓</span>
Serial port rate	9600~115200bps
RJ45	10Mbps
GPIO interface	1 relay output, 1 trigger input

Reliable firmware upgrade	Extensible upgrade mechanism
Software Development Kit	c++ java c# c++Library cross-platform (windows/linux/osx)
Reading tags indication	Buzzer, Led
Average Power consumption	<10W
Power supply (air joint)	220V AC input, +9V/3A DC output power converter

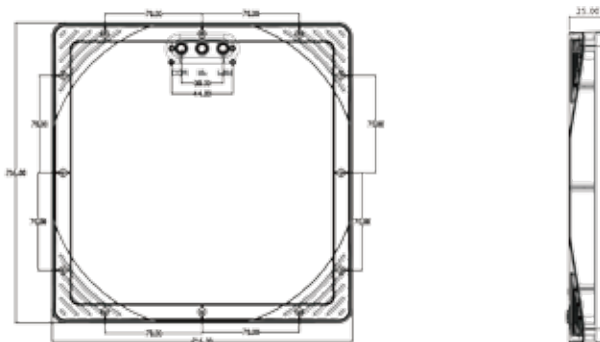
### Circumstance parameter

Humidity	5%~95%RH (non-condensing)
Protection level	IEC IP67
Operation temperature	-20°C ~ + 60°C
Storage temperature	-40°C ~ + 80°C
Automatic heating device	Automatic heating device is needed when working under -40°C temperature
Earthquake resistance height	1.2m / 6.56ft
Thunder protection	Direct-current earthing

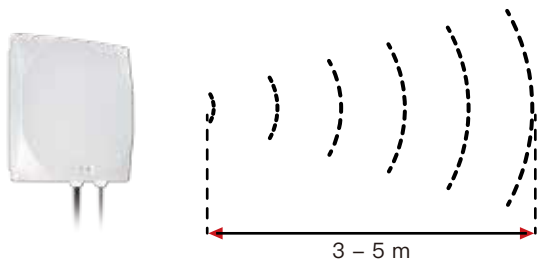
### Physical parameter

Dimension	450 (L) * 450 (W) * 40 (H) mm (Bracket not included)
Weight	4 kg (package included)
Outside shell material	ABS + PC
Antenna branch material	Galvanized rust-proof iron
Installation mode	Pole mounting
Antenna cover color	Ceramic white or warship ash
Antenna back cover	Die-cast aluminum alloy

### ≡ Dimension



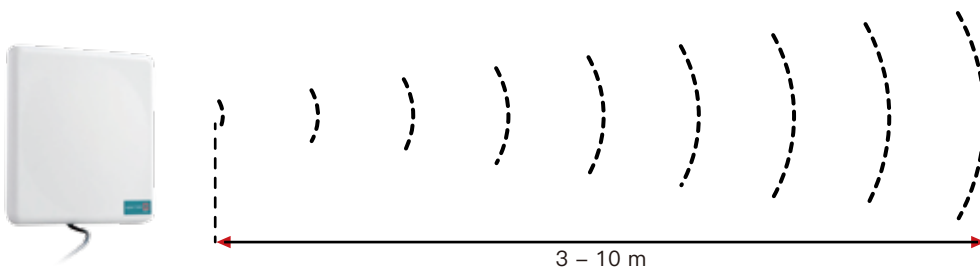
### ≡ Other Series of Products (Selected by Reading Range)



Model#: RGI 83T

Dimension: 217 (L) \* 217 (W) \* 70 (H) mm

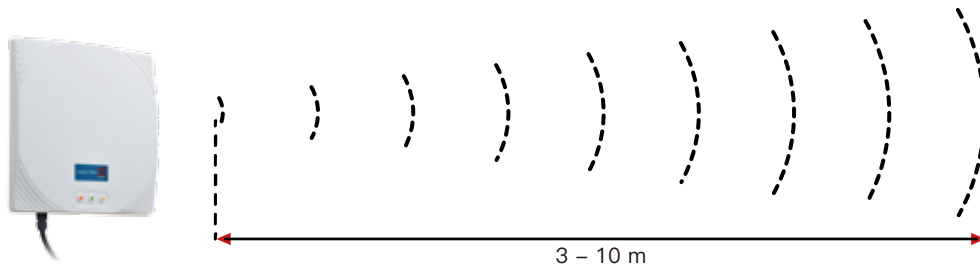
Weight: 2.5kg (package included))



Model#: RGI 86

Dimension: 306 (L) \* 306 (W) \* 25 (H) mm

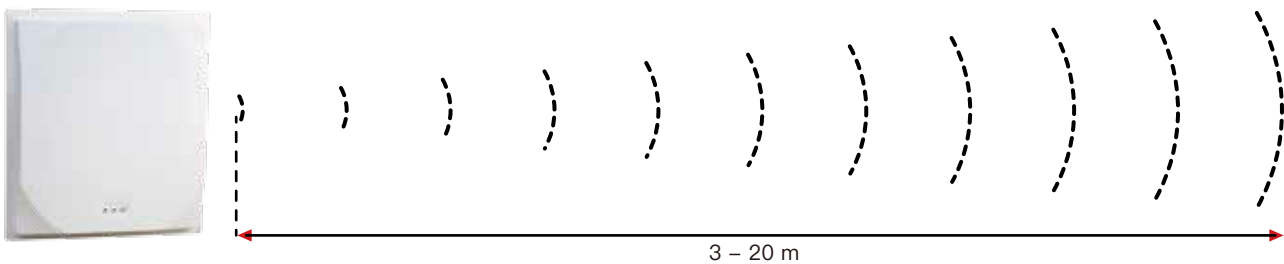
Weight: 2.6kg (package included)



Model#: RGI 89

Dimension: 260 (L) \* 260 (W) \* 65 (H) mm

Weight: 3.0kg (package included)



Model#: RGI 88T

Dimension: 450 (L) \* 450 (W) \* 40 (H) mm

Weight: 4.0kg (package included)

≡ Antenna Cover Color (Optional)



Ceramic White



Warship Grey

≡ Accessory (Six-piece Set)



≡ Installation Diagram

