

RFID Integrated Reader

Model: G202
Version:V1.0



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FCC WARNING

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This device complies with part 15 of the FCC 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 undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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:

- Reorient or relocate the receiving antenna.
- 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

SAFETY ALERT

Read and follow all instructions and warnings contained in this manual.

It is the user's responsibility to ensure the unit is correctly assembled, installed, and maintained. Failure to adhere to the instructions in this manual may result in personal injury or property damage.

Read all sections of this manual thoroughly before assembly.
Retain this manual for future reference.

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PRODUCT INFORMATION

Application and introduction:

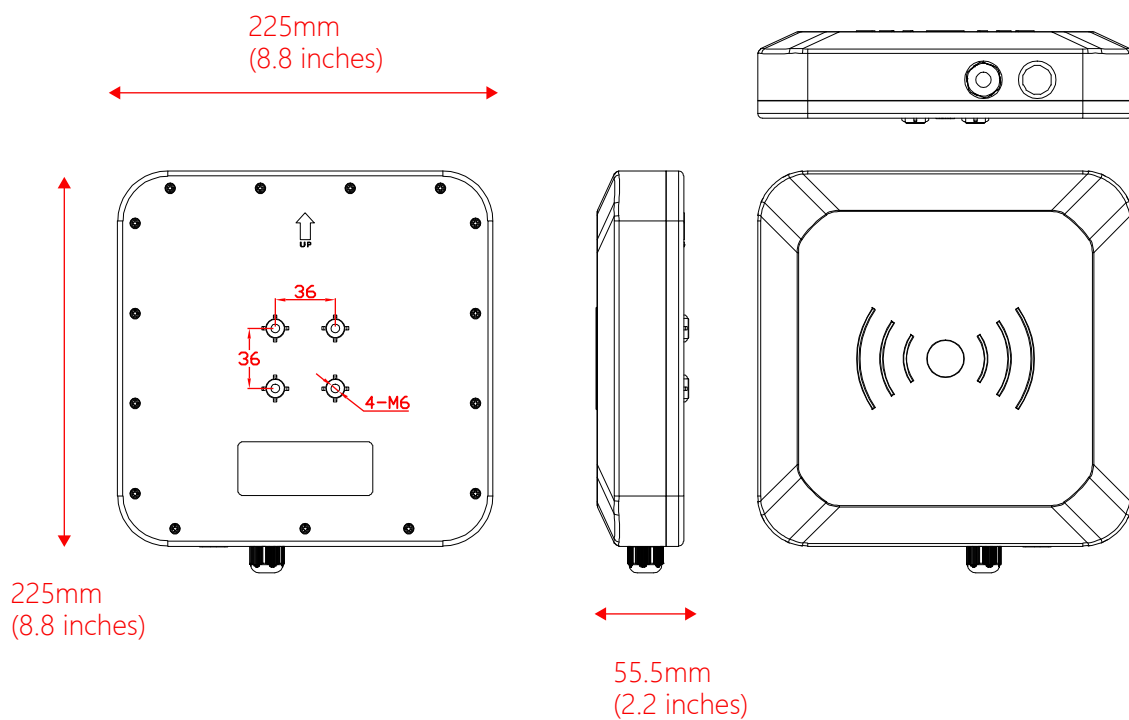
The UHF RFID fixed reader is an industrial-grade, fully integrated radio frequency identification system. Utilizing embedded antenna technology, it enables contactless data communication with RFID security seals for high-volume, long-range identification applications.

This compact device incorporates the RFID transceiver, polarized antenna array, and processing core within a single enclosure. Key features include:

- Multi-protocol operation (ISO 18000-6C/EPC Gen 2 compliant)
- Robust environmental performance (-20°C to +70°C operating range, IP65 rating)
- Stable operation in demanding conditions involving dust, thermal variation, and electromagnetic interference

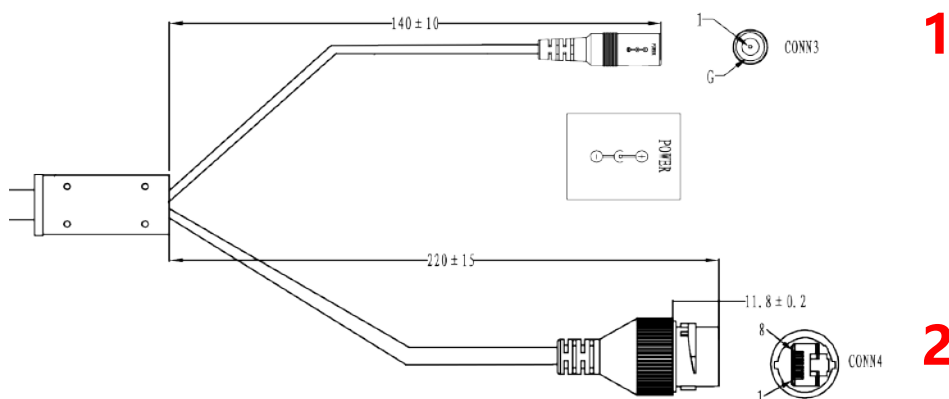


PRODUCT DIMENSIONS



Interface definition:

- **1**---Power interface(DC 12V)
- **2**---Network interface.



TECHNICAL SPECIFICATIONS

Functional Specifications	
RF Protocol	EPC Class 1 Gen 2/ISO18000-6C
Frequency Band	902.75-927.25MHz
Communication	Ethernet, RS-232, RS-485 (G202)
Wireless	RFID(G202)
I/O Interface	2 optocoupler inputs, 2 relay outputs
Read Distance	0~10m
Operating Power Consumption	12W(Maximum)
Beam Width(°)	Hor:65±5 Ver: 65±5
VSWR	≤1.3
Impedance(Ω)	50%
Polarization	Circular polarization
Axial Ratio(dB)	≤3
Operational Characteristics	
Read Range	0~10m
RF output power	25.112 dBm(The power is adjustable)
Power supply mode	power adapter (DC12V) or PoE power supply
Antenna gain	7.5dBi
Support features	Intensive read/write, antenna standing wave detection
Physical Parameters	
Dimensions	225 mm × 225 mm × 55 mm (8.8× 8.8 × 2.1 in)
Connector position	The bottom leads out
G.W.(kg)	1.78
Reflector material	Aluminium
Radome material	ABS
Mounting hardware(mm)	φ40 ~ φ50
Environmental Parameters	
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10% to 95%
IP Rating	IP65
Software development support	
SDK	C++/JAVA