

## RFID features

- Radio frequency identification technology, even in polluted environments and frozen environments, is not adversely affected.;
- Data can be read and written, can be written directly on the RFID tag, modify or read the address data.;
- No maintenance, contamination and wear will not affect identification.;
- With long service life, the RFID tag can be written up to 10W times, ensuring the use of the AGV full life cycle.;
- The recognition process does not require mechanical and optical components, which can effectively reduce component failure.


## Select RFID advantages

- Support 13.56MHz 15693 agreement.;
- The fastest 3m/s speed can be read reliably, so that the stability can be read at the running speed of AGV.;
- The maximum read card distance of ISO standard label is 150mm, and the maximum reading distance of the 25mm diameter circular label is 84mm.;
- Provide label reading signal strength detection, easy to check the label laying position and dry.;
- Read and write integrative design, do not need to buy write card, AGV can realize label write and read.;
- Compact structure design, small space occupation.;

| Performance | Specification parameter     |   |   |
|-------------|-----------------------------|---|---|
|             | Carrier frequency           | 13.56 MHz   |   |
|             | The output power            | 200mW   |   |
|             | Read and write distance     | biggest 150mm( affected by card size and quality )  | biggest 140mm ( affected by card size and quality ) |
|             | Signal strength detection   | Level 0-7 RSSI reading card signal strength detection   |   |
|             | The antenna                 | Integrated antenna  |   |
|             | Typical read and write time | Read 4Byte data: 13ms.<br>Write 4Byte data: 16ms.<br>Read 8Byte data: 15ms.<br>Write 8Byte data: 32ms |   |
|             | Data transmission speed     | 26kbit/s  |   |
|             | Functional configuration    | Support PC software configuration   |   |
|             | Other functions             | 4Byte/8Byte read and write data length configurable   |   |
|             |                             |   |   |

|              |                                  |   |                |
|--------------|----------------------------------|---|----------------|
| Interface    | Serial RS-232                    | RS-232 HS protocol.<br>Data transmission rate:<br>19200bps, 115200bps   |                |
|              | Serial RS-485                    | RS-485 HS protocol,<br>MODBUS protocol.<br>Data transmission rate:<br>9600bps -- 115200bps                            |                |
|              | CAN BUS                          | CAN BUS-HS protocol<br>Data transmission rate:<br>125K -- 1000K   |                |
|              | Display                          | 5 pieces LED lights   |                |
| Electrical   | Working voltage                  | 12V DC-36V DC   |                |
|              | The power of consumption         | Typical values 1.5W   |                |
| Instructure  | IP protection class              | IP54  |                |
|              | Weight                           | 410g  | 190g           |
|              | Dimensions                       | 148mm*87mm*40mm   | 65mm*65mm*40mm |
|              | The cable length                 | 1.5 meter   |                |
| Environments | Environments temperature         | -10~+50°C (not frozen)  |                |
|              | Environmental humidity           | Below 80% (no condensation)   |                |
|              | Medium environment               | Non-corrosive, flammable gas or dust, not in the presence of radioactive materials, strong magnetic fields and vacuum |                |
|              | Save the environment temperature | -20~+70°C (not frozen)  |                |
|              | Save the environment humidity    | Below 85% (no condensation)   |                |

RFID Tag

| Appearance  | Dimensions | Maximum read card distance |
|---|------------|----------------------------|
|  | 25mm*3mm   | 80mm                       |

Dimensions

