



# RS-AI02

2.45GHz Active Integrated Reader

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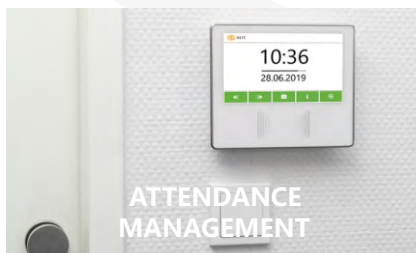
RS-AI02 has the features of high identification and reliability, strong expandability, etc. The read range is adjustable within 0~180 meters.



### Functions

- ISM 2400-2480Mhz Working Frequency, Private Protocol
- Reading Radius 0-180m in Open Area, Range Adjustable by Software
- Build-in 15dBi Antenna
- Support RS-232, RJ45 Communication Ports
- Support GPIO
- Support C#/C++ API

### Application



# RS-AI02

## 2.45GHz Active Integrated Reader

### Specification

| RF Parameters                       |                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Operating Frequency                 | 2.4-2.48GHz                                                                                                          |
| Power Output                        | Max +20dBm, step -6dBm (adjustable by software)                                                                      |
| Sensitivity                         | -95dBm                                                                                                               |
| Communication Interface             | RS-232, RJ45                                                                                                         |
| Optional Interfaces                 | RS-485, Wiegand 26/34                                                                                                |
| I/O Port (Optional )                | 2-channel relay output; 2-channel trigger input                                                                      |
| Firmware Upgrade                    | Support by serial port or network port                                                                               |
| Application Software Platform       | Provide development kit of API (C++ and C#)                                                                          |
| Tag Operation                       |                                                                                                                      |
| Tag Protocol                        | Private Protocol                                                                                                     |
| Tag Operating Mode                  | Compatible with active and passive operating mode tags                                                               |
| Reading Range                       | 8-260m (outdoor line of sight distance test, actual reading distance depends on antenna type, environment, tag type) |
| Identification Speed                | 300pcs/s (tag ID)                                                                                                    |
| Anti-confliction                    | Identifying 300pcs tag at the same time                                                                              |
| Mechanical & Electrical performance |                                                                                                                      |
| Indicator                           | Buzzer                                                                                                               |
| Product Dimensions                  | 320mm × 200mm × 105mm                                                                                                |
| Package Dimensions                  | 390mm × 240mm × 130mm                                                                                                |
| Net Weight                          | 1.85kg                                                                                                               |
| Gross Weight                        | 2.78kg                                                                                                               |
| Power Supply                        | DC 5V, 4A, PoE optional                                                                                              |
| Power Consumption                   | Standby 200mW; Working 400mW                                                                                         |
| Operating Temperature               | -40°C~+60°C                                                                                                          |
| Storage Temperature                 | -60°C~+80°C                                                                                                          |
| Operating Humidity                  | 5% ~ 95% (non-condensing)                                                                                            |
| IP Rating                           | IP65                                                                                                                 |
| Accessories                         | Bracket, power adapter                                                                                               |

