

GENERAL DESCRIPTION

RhombusMF203—A transceiver unit is designed for reading the Serial Number of the Mifare I compatible IC cards and is a major component in RFID(Radio Frequency Identification) reader system It can be applied in office/home security, personal identification, access control, anti-forgery and production control systems etc.

FEATURES

- New fashion beautiful design
- Built-in transceiver antenna;
- Maximum effective distance up to 50mm;
- Less than 200ms decoding time;
- Low power dissipation with single power supply;
- Wiegand26 interface;
- Support Mifare I compatible IC cards;
- Built-in bi-color LED and buzzer;

INTERFACE DESCRIPTION

| NUMBER | COLOR | SYMBOL | DESCRIPTION |
|--------|-------|--------|---|
| 1 | Red | VCC | Positive Power Supply |
| 2 | Black | GND | GND |
| 3 | Green | WD0 | Wiegand data 0 output |
| 4 | White | WD1 | Wiegand data 1 output |
| 5 | Brown | HOLD | Wiegand Hold output |
| 6 | Blue | LED | Color of LED changing when connected to GND |
| 7 | Grey | BUZ | Buzzer ringing when connected to GND |

CHARACTERISTICS

● Absolute Maximum Ratings

| ITEM | SYMBOL | VALUE | UNIT |
|-----------------|------------------|----------|------|
| Power Supply | VCC | 15 | V |
| Operating Temp. | T _{OPR} | 0~+70 | °C |
| Storage Temp. | T _{STR} | -55~+125 | °C |

● Electrical and Mechanical Specification

Under T_A= 25°C , VCC= +12V unless specified

| ITEM | SYMBOL | MIN | TYP | MAX | UNIT |
|--------------------|------------------|-----|-------|-----|------|
| Power Supply | VCC | 11 | 12 | 15 | V |
| Current Supply | I _C | | 70 | 110 | mA |
| Operation Freq. | F _{RE} | | 13.56 | | MHZ |
| Effective Distance | DIS | 0 | 30 | 50 | mm |
| Decoding Time | T _{DEC} | | 120 | 200 | ms |

Effective Distance depends on tags and operating environment.

Note: Rhombus' products must work with linear regulated power supply, and other kinds of power supply are prohibited.