

RFID-M 1

USER MANUAL

REVISION 2.00

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1 Product Specification

- Power supply:
 - +5VDC (±5%) , powered from USB
 - Current consumption: <120 mA
- Host Communication
 - USB 1.1 Data transfer rates:1Mbytes/s
- Contactless Interface
 - ISO14443 Type A
 - Carrier Frequency: 13.56MHz
 - Reader to card: ASK 100% modulation, Modified Miller Code, 106Kbit/s
 - Card to reader: Load modulation with Manchester Code – 106Kbit/s with 847KHz sub-carrier for card reply signal.
 - Anti-collision – Bit oriented anti-collision.
 - MIFARE Compatible. (Mifare Crypto 1 Supported)

- Card type

ISO14443A	Manufacturer	Serial number	Read page	Write page	Lock page	Transfer command
Mifare [®] Std	Philips	√	√	√	√	√
Mifare [®] Ultralight	Philips	√	√	√	√	√
MF1 IC70	Philips	√	√	√	√	√
Mifare [®] Prox	Philips	√				√
DESFire	Philips	√				√
SHC1102	Huahong	√	√	√	√	√

- Antenna Interface
 - Integrated on-board antenna
 - Operating Distance: > 60mm. (depending on transponders)
- Indicators
 - ✧ LED: Housing A: one red LED for power indication, two status LED (Green and yellow)
Housing B: multicolor LED (Blue: USB communication indication,
Cambridge blue: programmable status indication).
 - ✧ One Buzzer (programmable)
- Operating Temperature and Humidity
 - Operating Temperature : 0°C ~ +65°C
 - Storage Temperature : -20°C ~ +80°C
 - Humidity : 0 ~ 95% (not condensing)

2 Work mode

2.1 Command work mode

RFID-M1 provides various commands; it supports all ISO14443A operations, thus making it convenient to read and write all ISO14443A cards

2.2 Wiegand reading mode

RFID-M1 has Wiegand reading function. It can read the card information automatically in Wiegand, send the data via serial interface in accordance with communication protocol and decide whether to alarm or not according to the configuration.