

CR20 Series

Contactless RF Card Writers



Introduction

Contactless RF Card Writers of CR20 Series, including CR20E/CR20MW/CR20M, are developed based on an international standard protocol ISO/IEC 14443 for both card types A and B, and the 125K low frequency protocol.

The series adopts ZKTeco's self-developed high-performance RF card reader circuit. The mini card writers have high integration capability and strong anti-interference ability and offer stable and convenient performance with high cost-performance ratio. With USB communication interface, the series is applicable to access control, time & attendance, consumption and charging, anti-theft, patrol, and other RFID-related scenarios.

Features

| Model | Descriptions |
|--------|--|
| CR20E | <ul style="list-style-type: none">• Card writers with antenna that actively searches for cards; working frequency is 125kHz• Effective detection distance: 0cm ~ 8cm (depends on working environments and card types)• Data receiving time within the effective distance: <65ms• Power supply: 5V USB port• Working current: <80mA• Available to export to a USB; drive-free |
| CR20MW | <ul style="list-style-type: none">• Card writers with antenna that searches for cards on requests; working frequency is 13.56MHz• Effective detection distance: 0cm ~ 8cm (depends on working environments and card types)• Data receiving time within the effective distance: <90ms• Power supply: 5V USB port• Working current: <80mA• Available to export to a USB; drive-free |
| CR20M | <ul style="list-style-type: none">• Card writers with antenna that actively searches for cards; working frequency is 13.56MHz• Effective detection distance: 0cm ~ 3cm (depends on the IC card type and installation environment)• Data receiving time within the effective distance: <90ms• Power supply: 5V USB port• Available to export to a USB; drive-free |

Specifications

| Model | CR20E | CR20MW | CR20M |
|-------------------------|---|--|--|
| Appearance |  | | |
| Card Type(s) Supported | 125kHz RFID Proximity Cards | Mifare One S70, Mifare One S50 | Mifare One S70, Mifare One S50, 1208-CPU+MF, MF3-Desfire Ev1, Ultralight, Ntag213 |
| Operating Frequency | 125kHz | 13.56MHz | 13.56MHz |
| Power Supply | DC 5V (±5%) | DC 5V (±4%) | DC 5V (±4%) |
| Current | Stand-by: 25mA Normal: 80mA | Stand-by: <82mA Normal: <102mA | Stand-by: <40mA Normal: <60mA |
| Detection Distance | 30 - 100mm | 30 - 100mm | 0 - 30mm |
| Communication Interface | USB Port | Keyboard Emulation Output (Read Only) | Keyboard Emulation Output (Read Only) |
| Operating Temperature | -10°C ~ 70°C | -10°C ~ 70°C | -10°C ~ 70°C |
| Storage Temperature | -20°C ~ 80°C | -20°C ~ 80°C | -20°C ~ 80°C |
| Dimensions (mm) | 117.2 * 66.2 * 17 | 111 * 81 * 26.6 | 117.2 * 66.2 * 17 |

