

## DS-K1201 Series Fingerprint and Card Reader

DS-K1201 Series Fingerprint and card reader, designed with a 32 bit high-speed processor, contains the optical fingerprint recognition module. It communicates with access controller via the RS-485 protocol. And a built-in tamper-proof module helps to protect the card reader from malicious damage.



### Available Models

- DS-K1201EF (EM Card Reading)
- DS-K1201MF (Mifare Card Reading)
- \* *Recommended fingerprint recorder model to use cooperatively: DS-K1F820-F.*

### Features

- A group of messy code encrypted data for the security of fingerprint storage
- Supports RS-485 communication with 19200bps-N-8-1 transmission rate. There are CRC test for the protocol.
- Supports EM card reading (DS-K1201EF)
- Supports Mifare card reading (DS-K1201MF)
- Card induction distance is 30 mm to 100 mm
- Supports multiple authentication modes (card, fingerprint, and card + fingerprint)
- Optical CMOS fingerprint module. The characters of fingerprint can be export to the card reader
- Max. 5000 fingerprints storage
- Adopts the optical fingerprint module, supporting 1:N mode (fingerprint, card + fingerprint) and 1:1 mode (card + fingerprint)
- Fingerprint comparison time: 1:1 ≤ 1 s, 1:1000 ≤ 1 s; FRR ≤ 0.01%, FAR ≤ 0.001%
- Communication circuit is designed with optical coupling isolation and noise suppression function
- Built-in buzzer for status indication
- Accurate data and time display provided by built-in electronic clock and watchdog program to ensure the basic function of the terminal
- Tamper-proof function



## Specifications

| Model                       | DS-K1201EF                                     | DS-K1201MF |
|-----------------------------|--|------------|
| Process                     | 32 bit high-performance processor              |            |
| Fingerprint module          | Optical Fingerprint Module                     |            |
| Fingerprint capacity        | 5000   |            |
| Reading mode                | Built-in EM/Mifare reading module              |            |
| Communication mode          | RS-485   |            |
| Transmission rate           | 19200bps-N-8-1                                 |            |
| False acceptance rate (FAR) | ≤ 0.001%                                       |            |
| False rejection rate (FRR)  | ≤ 0.01%  |            |
| Comparison mode             | 1:1/1:N  |            |
| Comparison time             | 1:1 ≤ 1 s; 1:3000 ≤ 1.5 s                      |            |
| LED indicator               | Power/Communication                            |            |
| Prompt                      | Buzzer   |            |
| Alarm                       | Tamper alarm × 1                               |            |
| Induction distance          | 30 mm to 100 mm                                |            |
| Power supply                | 12 VDC ± 10%                                   |            |
| Working temperature         | -40 °C to 70 °C (-40 °F to 158 °F)             |            |
| Working humidity            | 10% to 90% (No condensing)                     |            |
| Dimension                   | 62 mm × 132 mm × 44 mm (2.44" × 5.20" × 1.73") |            |
| Protection level            | IP65   |            |
| Mounting method             | Surface mounting                               |            |

\* Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).

\* For device with fingerprint module, we suggest that do not install the device outdoors.



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