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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