



**CFS01E** - Fingerprint & EM Proximity Card Reader  
**CFS01M** - Fingerprint & Mifare Card Reader

## CFS01E / CFS01M Fingerprint & Card Reader

- ❑ Encrypted data for the security of fingerprint storage.
- ❑ Supports RS485 communication with 19200bps-N-8-1 transmission rate.
- ❑ Card induction distance of 30mm to 100mm.
- ❑ Supports multiple authentication modes (card, fingerprint, and card + fingerprint).
- ❑ Optical CMOS fingerprint module. The characters of fingerprint can be exported to other readers.
- ❑ Maximum storage of 5000 fingerprints.
- ❑ Adopts the optical fingerprint module, supporting 1:N mode (fingerprint, card + fingerprint) and 1:1 mode (card + fingerprint).
- ❑ Fingerprint comparison time:  
1:1 ≤ 1s, 1:1000 ≤ 1s; FRR ≤ 0.01%, FAR ≤ 0.001%
- ❑ Communication circuit 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.
- ❑ Tamper-proof function.

### Technical Specification

Processor	32-bit
Fingerprint Capacity	5000
Card Reader Module	EM Proximity (CFS01E) Mifare (CFS01M)
Communication	RS-485
Transmission Rate	19200bps-N-8-1
False Acceptance Rate	<0.001%
False Rejection Rate	<0.01%
Comparison Mode	1:1 / 1:N
Comparison Time	<1s (1:1), <1.5s (1:3000)
LED Indicator	Power, Communication
Audible Indicator	Buzzer
Alarm	Tamper Alarm x 1
Induction Distance	10 to 30 mm
Ingress Protection	IP65
Power Requirements	12 Vdc +/- 10%
Working Condition	-40°C ~ 70°C; 10% ~ 90% (non-condensing)
Dimensions (WxHxD)	62 x 132 x 44 mm