

FPrfid-S50

Fingerprint Mifare S50 RFID Contactless Card



FPrfid-S50 is a powerful 13.56Mhz Mifare S50 RFID card built-in capacitive fingerprint sensor with MCU embedded recognition algorithms. The Cermet-like coating of fingerprint sensor provides up to 6H hardness and protects sensors against scratch, impact and daily wear-and-tear. It can be widely applied in various fields such as access control systems, locks and safes, high-level security applications and other standalone authentication applications.

SPECIFICATION	
Mifare RFID Card	
Card Size	85.6 (L) x 54 (W) x 0.74 ~ 0.84 (T) mm
chipset	Philips MF1 IC S50
Frequency	HF 13.56Mhz
Card Material	ABS, PVC, PET as requested
LED Indicators	2 LEDs, red indicates power on; green indicates fingerprint recognition
Embedded Battery	Solid state battery for fingerprint sensor
Card Warping/ Curl Test	Compliance ISO/IEC 14443-1 4.3.3, ISO/IEC 10373-1 5.8
Capacitive FingerPrint Sensor	Charger for Fingerprint RFID Card
Resolution / Sensing Area	508 DPI / 8 x 8 mm or 160 x 160 pixel
Sensor Type	Capacitance Type
Supply Voltage	3.0 ~ 3.6VDC
Hardness / Surface	Up to 6H / Cermet-like Coating
FAR / FRR	0.0001 / < 2%
Fingerprint Template Number	Finger number x 5, each finger image x 8
Battery Life	300 times operation based on 6 sec. when pressing power button
Operating Temperature	-10 ~ 50° C / < RH 20 ~ 85%



OPERATION



The Card not activated : The red LED starts flashing after the button is pressed. If there's no fingerprint pressing on sensor, it will be Power OFF after 10 seconds. If there's fingerprint pressing, it will turn to the green LED for 30 seconds, and then Power OFF.

The Card not activated : The button is pressed over 6 seconds for entering Enroll mode, then the red LED starts slow flashing. After the fingerprint registration is completed, it will automatically implement Issue Card action and then Power OFF. If Fingerprint enroll process is not completed, this card is equivalent to an empty card.

The Card has been activated : It turns to the red LED after the button is pressed. If no fingerprint is pressing after more than 10 seconds is accumulated, or identification fails over 3 times, it will be Power OFF. If there's fingerprint pressing and identification is successful, it will turn to the green LED for 30 seconds, and then Power OFF.

The Card has been activated : It goes to Delete Mode after the button is pressed over 6 seconds, then it turns to the red and green LED. It can delete Finger database while it needs match the 1st Finger of Finger database. When the 1st Finger of Finger database is pressed and matched, the green LED starts flashing 3 times, then it goes to delete Finger database. If there's no fingerprint pressing on sensor over 5 seconds, or finger matched is failed, then it will be Power OFF.

* Features and specification are subject to change without notice.



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