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Architect & Engineer Specification

FINGER007SRB Fingerprint Stored Smartcard Access Controller

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1 Introduction

The intent of this document is to describe the specification of FINGER007SRB Fingerprint Stored Smartcard Access Controller manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

The FINGER007SRB Fingerprint Stored Smartcard Access Controller shall provide total control of access control for single door using smart card that shall contain user's fingerprint. With built-in optical fingerprint reader and 13.56MHz Smart Card[Mifare] reader, it shall dynamically control unlimited Fingerprints user. Anti-pass back operation shall be supported through external reader port. Combined with Starwatch Dual Pro software, the FINGER007SRB shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FINGER007SRB biometric reader shall measure 6.36" x 5.28" x 1.9" (161.5 x 134 x 48.5mm). FINGER007SRB shall arrive disassembled and contains following;
 - 3.1.1 A wall mounting plate
 - 3.1.2 The body that mounts to the wall mounting plate
- 3.2 The FINGER007SRB shall have a dark pearl gray body
- 3.3 The FINGER007SRB shall weight 547g (Packaged weight for shipping shall be 700g)

4 Electrical Specification

- 4.1 The FINGER007SRB shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FINGER007SRB shall contain memory as following.
 - 4.2.1 Program memory of 8KByte ROM
 - 4.2.2 Data memory of 128KByte Flash memory
- 4.3 The FINGER007SRB shall contain LCD which includes 1 x Character LCD Module, 2 line x 16ch, 65.6mm x 13.8mm.
- 4.4 The FINGER007SRB shall have a 16 key numeric Keypad with back light.
- 4.5 The FINGER007SRB shall indicate its status through red, green, yellow LEDs.
- 4.6 The FINGER007SRB shall have piezo buzzer for the beeper.
- 4.7 Dual temper switch shall be built in to the FINGER007SRB to provide safe operation.
- 4.8 The FINGER007SRB standalone Smart Card reader shall operate on 12V. Max 300mA.

5 Fingerprint reader Specification

- 5.1 The FINGER007SRB shall include built in optical fingerprint module.
- 5.2 Fingerprint template size shall be 400bytes with less than 1 sec of verification time.
- 5.3 Fingerprint date for FINGER007SRB shall be encrypted using patented encryption algorithm.

6 RFID reader Specification

- 6.1 The FINGER007SRB shall include built-in 13.56MHz Smart Card[Mifare] reader.
- 6.2 The FINGER007SRB shall provide 1 external reader port for anti-pass back function.
- 6.3 The FINGER007SRB shall accept ISO 14443 Type A Mifare card which has fingerprint embedded by IDTECK PRG2000B

7 Communication Specification

- 7.1 External reader port included in FINGER007SRB shall supports 26 bit Wiegand communication.
- 7.2 The FINGER007SRB shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FINGER007SRB shall support baud rate of 4800bps, 9600bps(default), 19200bps, and



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38400bps software programmable.

7.4 Input and Output as following shall be provided by the FINGER007SRB.

7.4.1 The FINGER007SRB shall have 4 input ports (isolation).

7.4.2 The FINGER007SRB shall have 4 output ports as following, 2 form-C relay (Com, NO, NC)
Rating 2A, 2EA TTL.

8 Environmental Specification

8.1 Operating Temperature

8.1.1 The FINGER007SRB shall operate temperature between 0 ° C ~ +50 ° C.

8.2 Operating Humidity

8.2.1 The FINGER007SRB shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

9.1 The FINGER007SRB shall have following certification

9.1.1 FCC certification

9.1.2 UL certification

9.1.3 CE certification

9.1.4 MIC certification

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