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Architect & Engineer Specification

FINGER007SR Biometric Smart Card Standalone Access Controller

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1 Introduction

The intent of this document is to describe the specification of FINGER007SR Biometric smart card standalone 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 FINGER007SR biometric smart card standalone access controller shall provide total control of access control for single door. With built-in optical fingerprint reader and 13.56MHz Mifare type smart card reader, it shall dynamically control up to 4,000 users / 26,000 Events. Anti-pass back operation shall be supported through external reader port. Combined with Starwatch Dual Pro software, the FINGER007SR shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FINGER007SR biometric reader shall measure 6.36" x 5.28" x 1.9" (161.5 x 134 x 48.5mm). FINGER007SR 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 FINGER007SR shall have a dark pearl gray body
- 3.3 The FINGER007SR shall weight 547g (Packaged weight for shipping shall be 700g)

4 Electrical Specification

- 4.1 The FINGER007SR shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FINGER007SR shall contain memory as following.
 - 4.2.1 Finger Module shall have following memory
 - 4.2.1.1 Program memory of 128KByte Flash memory
 - 4.2.1.2 Data memory of 128KByte/256KByte/512KByte Flash memory
 - 4.2.2 Controller part of FINGER007SR shall have following memory
 - 4.2.2.1 Program memory of 64KByte Flash ROM.
 - 4.2.2.2 Data memory of 512KByte SRAM.
- 4.3 The FINGER007SR shall contain LCD which includes 1 x Character LCD Module, 2 line x 16ch, 65.6mm x 13.8mm.
- 4.4 The FINGER007SR shall have a 16 key numeric Keypad with back light.
- 4.5 The FINGER007SR shall indicate its status through red, green, yellow LEDs.
- 4.6 The FINGER007SR shall have piezo buzzer for the beeper.
- 4.7 Dual temper switch shall be built in to the FINGER007SR to provide safe operation.
- 4.8 The FINGER007SR standalone smart card reader shall operate on 12V. Max 300mA.

5 Fingerprint reader Specification

- 5.1 The FINGER007SR shall include built in optical fingerprint module.
- 5.2 1,000/2,000/4,000 Fingerprint templates shall be stored as dual finger templates.
- 5.3 Dual fingerprint template size shall be 800Kbytes.
- 5.4 The FINGER007SR shall provide 1:n identification up to 4000 users.
- 5.5 Optional touch sensor shall be available with FINGER007SR to provide easy identification.

6 RFID reader Specification

- 6.1 The FINGER007SR shall include built-in 13.56MHz Mifare smart card reader.
- 6.2 The FINGER007SR shall provide 1 external reader port for anti-pass back function.



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6.2.1.1 Reading Range of FINGER007SR shall be 4" (10cm) using ISO14443 Mifare card..

7 Communication Specification

- 7.1 External reader port included in FINGER007SR shall supports 34 bit Wiegand communication.
- 7.2 The FINGER007SR shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FINGER007SR shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.
- 7.4 Input and Output as following shall be provided by the FINGER007SR.
 - 7.4.1 The FINGER007SR shall have 4 input ports (isolation).
 - 7.4.2 The FINGER007SR 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 FINGER007SR shall operate temperature between 0 ° C ~ +50 ° C.
- 8.2 Operating Humidity
 - 8.2.1 The FINGER007SR shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

- 9.1 The FINGER007SR shall have following certification
 - 9.1.1 FCC certification
 - 9.1.2 UL certification
 - 9.1.3 CE certification
 - 9.1.4 MIC certification

Technical Support Contact Information:

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