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Architect & Engineer Specification

IP-Finger007 Biometric Standalone Access Controller

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1 Introduction

The intent of this document is to describe the specification of IP-Finger007 Biometric 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 IP-Finger007 biometric standalone access controller shall provide total control of access control for single door. With built-in optical fingerprint reader and 125KHz ASK[EM] 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 IP-Finger007 shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The IP-Finger007 biometric reader shall measure 6.36" x 5.28" x 1.9" (161.5 x 134 x 48.5mm). IP-Finger007 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 IP-Finger007 shall have a dark pearl gray body
- 3.3 The IP-Finger007 shall weight 547g (Packaged weight for shipping shall be 700g)

4 Electrical Specification

- 4.1 The IP-Finger007 shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The IP-Finger007 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 IP-Finger007 shall have following memory
 - 4.2.2.1 Program memory of 64KByte ROM.
 - 4.2.2.2 Data memory of 512KByte SRAM.
- 4.3 The IP-Finger007 shall contain LCD which includes 1 x Character LCD Module, 2 line x 16ch, 65.6mm x 13.8mm.
- 4.4 The IP-Finger007 shall have a 16 key numeric Keypad with back light.
- 4.5 The IP-Finger007 shall indicate its status through red, green, yellow LEDs.
- 4.6 The IP-Finger007 shall have piezo buzzer for the beeper.
- 4.7 Dual temper switch shall be built in to the IP-Finger007 to provide safe operation.
- 4.8 The IP-Finger007 standalone proximity reader shall operate on 12V. Max 300mA.

5 Fingerprint reader Specification

- 5.1 The IP-Finger007 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 IP-Finger007 shall provide 1:n identification up to 4000 users.
- 5.5 Optional touch sensor shall be available with IP-Finger007 to provide easy identification.

6 RFID reader Specification

- 6.1 The IP-Finger007 shall include built-in 125KHz ASK[EM] card reader.
- 6.2 The IP-Finger007 shall provide 1 external reader port for anti-pass back function.
- 6.3 Reading Range of IP-Finger007 shall vary depending on the types of the card that are used. The



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IP-Finger007 shall accept following proximity cards with stated reading range.

- 6.3.1 Passive cards that are stated below shall operate with the IP-Finger007 and shall have declared reading range.
 - 6.3.1.1 IPC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
 - 6.3.1.2 IPC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
 - 6.3.1.3 IPK 50 key tag shall have 2 inch (5 Cm) reading range.

7 Communication Specification

- 7.1 External reader port included in IP-Finger007 shall supports 26 bit Wiegand communication.
- 7.2 The IP-Finger007 shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The IP-Finger007 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 IP-Finger007.
 - 7.4.1 The IP-Finger007 shall have 4 input ports (isolation).
 - 7.4.2 The IP-Finger007 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 IP-Finger007 shall operate temperature between 0 ° C ~ +50 ° C .
- 8.2 Operating Humidity
 - 8.2.1 The IP-Finger007 shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

- 9.1 The IP-Finger007 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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