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Architect & Engineer Specification

FINGER006 Fingerprint & PIN proximity Reader

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1 Introduction

The intent of this document is to describe the specification of FINGER006 Fingerprint & PIN proximity Reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

FINGER006 Fingerprint & PIN proximity Reader shall provide easy and versatile solution to access control. Armed with 1:n identification within 2 second, it shall dynamically control up to 4,000 fingerprints. With Built-in 125kHz proximity reader and Fingerprint reader, FINGER006 provide higher level of security. FINGER006 shall provide easy connection to controllers with standard 26bit wiegand communication. Combined with iTDC or iCON100 controller, the FINGER006 shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FINGER006 biometric reader shall measure 6.36" x 5.28" x 1.9" (161.5 x 134 x 48.5mm). FINGER006 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 FINGER006 shall have a dark pearl gray body
- 3.3 The FINGER006 shall weight 547g (Packaged weight for shipping shall be 700g)

4 Electrical Specification

- 4.1 The FINGER006 shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FINGER006 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 FINGER006 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 FINGER006 shall contain LCD which includes 1 x Character LCD Module, 2 line x 16ch, 65.6mm x 13.8mm.
- 4.4 The FINGER006 shall have a 16 key numeric Keypad with back light.
- 4.5 The FINGER006 shall indicate its status through red, green, yellow LEDs.
- 4.6 The FINGER006 shall have piezo buzzer for the beeper.
- 4.7 Dual temper switch shall be built in to the FINGER006 to provide safe operation.
- 4.8 The FINGER006 standalone proximity reader shall operate on 12V. Max 350mA.

5 Fingerprint reader Specification

- 5.1 The FINGER006 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 FINGER006 shall provide 1:n identification up to 4000 users.
- 5.5 Optional touch sensor shall be available with FINGER006 to provide easy identification.

6 RFID reader Specification

- 6.1 The FINGER006 shall include built-in 125KHz RF reader.
- 6.2 Reading Range of FINGER006 shall vary depending on the types of the card that are used. The



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FINGER006 shall accept following proximity cards with stated reading range.

- 6.2.1 Passive cards that are stated below shall operate with the FINGER006 and shall have declared reading range.
 - 6.2.1.1 IDC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
 - 6.2.1.2 IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
 - 6.2.1.3 IDK 50 key tag shall have 2 inch (5 Cm) reading range.
 - 6.2.1.4 IMC125 mini proximity Sticker Tag shall have 2 inch (5 Cm) reading range.
- 6.2.2 Active cards that are stated below shall operate with the FINGER006 and shall have declared reading range.
 - 6.2.2.1 IDA 200 active card shall have 15 inch (40 Cm) reading range.

7 Communication Specification

- 7.1 The FINGER006 shall provide RS422, RS232 and optional TCP/IP communication.
- 7.2 The FINGER006 shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.

8 Environmental Specification

- 8.1 Operating Temperature
 - 8.1.1 The FINGER006 shall operate temperature between 0 ° C ~ +50 ° C.
- 8.2 Operating Humidity
 - 8.2.1 The FINGER006 shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

- 9.1 The FINGER006 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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