



## Architect & Engineer Specification

# IP-FINGER006 Fingerprint & PIN proximity Reader

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### 1 Introduction

The intent of this document is to describe the specification of IP-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

IP-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 ASK[EM] card reader and Fingerprint reader, IP-FINGER006 provide higher level of security. IP-FINGER006 shall provide easy connection to controllers with standard 26bit wiegand communication. Combined with iTDC or iCON100 controller, the IP-FINGER006 shall provide easy yet secure access control solution.

### 3 Mechanical Specification

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

### 4 Electrical Specification

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

### 5 Fingerprint reader Specification

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

### 6 RFID reader Specification

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



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IP-FINGER006 shall accept following proximity cards with stated reading range.

- 6.2.1 Passive cards that are stated below shall operate with the IP-FINGER006 and shall have declared reading range.
  - 6.2.1.1 IPC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
  - 6.2.1.2 IPC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
  - 6.2.1.3 IPK 50 key tag shall have 2 inch (5 Cm) reading range.

## **7 Communication Specification**

- 7.1 The IP-FINGER006 shall provide RS422, RS232 and optional TCP/IP communication.
- 7.2 The IP-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 IP-FINGER006 shall operate temperature between 0 ° C ~ +50 ° C.
- 8.2 Operating Humidity
  - 8.2.1 The IP-FINGER006 shall operate humidity between 10% ~ 90% RH(Non-condensing)

## **9 Certification and Approvals**

- 9.1 The IP-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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