



**IDTECK Co., Ltd.**

5F Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea  
Tel : 82-2-2659-0055 Fax : 82-2-2659-0086 www.idteck.com webmaster@idteck.com



## *Architect & Engineer Specification*

# **FINGER006EX Fingerprint & PIN proximity Reader**

November 14, 2005

## **1 Introduction**

The intent of this document is to describe the specification of FINGER006EX 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**

FINGER006EX 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 external 125kHz proximity reader port and built-in Fingerprint reader, FINGER006EX provide higher level of security. FINGER006EX shall provide easy connection to controllers with standard 26bit wiegand communication. Combined with iTDC or iCON100 controller, the FINGER006EX shall provide easy yet secure access control solution.

## **3 Mechanical Specification**

- 3.1 The FINGER006EX biometric reader shall measure 6.36" x 5.28" x 1.9" (161.5 x 134 x 48.5mm). FINGER006EX 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 FINGER006EX shall have a dark pearl gray body
- 3.3 The FINGER006EX shall weight 547g (Packaged weight for shipping shall be 700g)

## **4 Electrical Specification**

- 4.1 The FINGER006EX shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FINGER006EX 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 FINGER006EX 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 FINGER006EX shall contain LCD which includes 1 x Character LCD Module, 2 line x 16ch, 65.6mm x 13.8mm.
- 4.4 The FINGER006EX shall have a 16 key numeric Keypad with back light.
- 4.5 The FINGER006EX shall indicate its status through red, green, yellow LEDs.
- 4.6 The FINGER006EX shall have piezo buzzer for the beeper.
- 4.7 Dual temper switch shall be built in to the FINGER006EX to provide safe operation.
- 4.8 The FINGER006EX standalone proximity reader shall operate on 12V. Max 350mA.

## **5 Fingerprint reader Specification**

- 5.1 The FINGER006EX 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 FINGER006EX shall provide 1:n identification up to 4000 users.
- 5.5 Optional touch sensor shall be available with FINGER006EX to provide easy identification.

## **6 RFID reader Specification**

- 6.1 The FINGER006EX shall include external 125KHz RF reader port.
- 6.2 Reading Range of FINGER006EX shall vary depending on the types of the proximity reader that are



**IDTECK Co., Ltd.**

5F Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea  
Tel : 82-2-2659-0055 Fax : 82-2-2659-0086 www.idteck.com webmaster@idteck.com



used. The Finger006 shall accept proximity reader with 26bit wiegand or ABA track II output.

## **7 Communication Specification**

- 7.1 External reader port included in FINGER006EX shall supports 26 bit Wiegand or ABA track II communication.
- 7.2 The FINGER006EX shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FINGER006EX shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.

## **8 Environmental Specification**

- 8.1 Operating Temperature
  - 8.1.1 The FINGER006EX shall operate temperature between 0 ° C ~ +50 ° C.
- 8.2 Operating Humidity
  - 8.2.1 The FINGER006EX 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:**

#### **IDTECK**

5F, Ace Techno Tower B/D, 684-1 Deungchon-Dong  
Gangseo-Gu, Seoul, 157-030  
Republic of Korea  
Hours: 0900 ~ 1900  
Tel: 82-2-2659-0055  
Fax: 82-2-2659-0086  
E-mail: [webmaster@idteck.com](mailto:webmaster@idteck.com)  
Web: [www.idteck.com](http://www.idteck.com)

### **Disclaimer**

The information in the document has been carefully checked and reliable. IDTECK reserves the right to modify and revise the document without any notice. IDTECK holds no reliability for in accuracies in the document. If you discover any discrepancy in this document please contact us via email listed above or phone.