



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

FINGER006SR Biometric Smart Card Reader

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1 Introduction

The intent of this document is to describe the specification of FINGER006SR Biometric smart card reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

The FINGER006SR biometric smart card reader 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. FINGER006SR shall provide easy connection to controllers with standard 34bit Wiegand communication. Combined with iTDC-SR or iCON100-SR controller, the FINGER006SR shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FINGER006SR biometric reader shall measure 6.36" x 5.28" x 1.9" (161.5 x 134 x 48.5mm). FINGER006SR 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 FINGER006SR shall have a dark pearl gray body
- 3.3 The FINGER006SR shall weight 547g (Packaged weight for shipping shall be 700g)

4 Electrical Specification

- 4.1 The FINGER006SR shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FINGER006SR 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 FINGER006SR 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 FINGER006SR shall contain LCD which includes 1 x Character LCD Module, 2 line x 16ch, 65.6mm x 13.8mm.
- 4.4 The FINGER006SR shall have a 16 key numeric Keypad with back light.
- 4.5 The FINGER006SR shall indicate its status through red, green, yellow LEDs.
- 4.6 The FINGER006SR shall have piezo buzzer for the beeper.
- 4.7 Dual temper switch shall be built in to the FINGER006SR to provide safe operation.
- 4.8 The FINGER006SR standalone smart card reader shall operate on 12V. Max 300mA.

5 Fingerprint reader Specification

- 5.1 The FINGER006SR 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 FINGER006SR shall provide 1:n identification up to 4000 users.
- 5.5 Optional touch sensor shall be available with FINGER006SR to provide easy identification.

6 RFID reader Specification

- 6.1 The FINGER006SR shall include built-in 13.56MHz Mifare smart card reader.
- 6.2 Reading Range of FINGER006SR shall be 4" (10cm) using ISO14443 Mifare card..



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7 Communication Specification

- 7.1 FINGER006SR shall supports 34 bit Wiegand output for connecting controller.
- 7.2 The FINGER006SR shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FINGER006SR shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.

8 Environmental Specification

- 8.1 Operating Temperature
 - 8.1.1 The FINGER006SR shall operate temperature between 0 ° C ~ +50 ° C .
- 8.2 Operating Humidity
 - 8.2.1 The FINGER006SR shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

- 9.1 The FINGER006SR 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
Web: www.idteck.com

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