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## *Architect & Engineer Specification*

# **iTDC Multi Door Access Control Panel**

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## **1 Introduction**

The intent of this document is to describe the specification of iTDC multi door access control panel manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

## **2 Description**

The iTDC multi door access control panel shall provide total control of access control for multi door. It shall dynamically control up to 50,000 User ID numbers and it can keep 29,500 events in its memory. iTDC shall connect to 32 iTDCs to control up to 128 doors with EIO88 expansion board. It shall have all event transaction reports that can be downloaded /uploaded from/to the host computer with software supporting a variety of reporting formats. Combined with Starwatch iTDC Pro software, the iTDC shall provide convenient yet secure access control solution.

## **3 Mechanical Specification**

- 3.1 The iTDC multi door access control panel shall measure 5.7" x 7.3" x 0.5" (185 x 145 x 18mm)
- 3.2 The iTDC package shall arrive assembled optionally contains following;
  - 3.2.1 EIO88 expansion board  
EIO88 expansion board attached to iTDC shall measure 3.5" x 5.3" (90 x 136mm)
  - 3.2.2 A power board with 7A or 4A batteries
  - 3.2.3 LCD and Keypad for standalone operation and manual setting.
  - 3.2.4 IIM7100A Module  
IIM7100A TCP/IP communication module shall measure 1.18" x 2" (30 x 50mm)
- 3.3 The iTDC shall weight 250g and packaged weight for shipping shall be 300g

## **4 Electrical Specification**

- 4.1 The iTDC shall contain Dual 8bit Microprocessor
- 4.2 The iTDC shall contain memory as following.
  - 4.2.1 Program memory of 64KByte ROM.
  - 4.2.2 Data memory of 512KByte flash memory.
- 4.3 The iTDC shall have an optional 12 key numeric Keypad with back light and LCD
- 4.4 The iTDC shall indicate its status through red and green 21 LED indicators and buzzer.
- 4.5 The iTDC shall operate on 12V. Max 350mA.

## **5 Control Panel Specification**

- 5.1 The iTDC shall provide 4 external reader ports.
- 5.2 The iTDC shall remain ID and event data and setting value in case of electric outage.
- 5.3 The iTDC shall have anti-pass back operation.
- 5.4 The iTDC shall have the following time schedule function.
  - 5.4.1 Card time schedule
  - 5.4.2 Reader time schedule
  - 5.4.3 Input time schedule
  - 5.4.4 Output time schedule
- 5.5 The iTDC shall have ARM/DISARM function.
- 5.6 The iTDC shall have forced door open alarm function.
- 5.7 The iTDC shall have duress alarm function.
- 5.8 The iTDC shall have 2 men operation function.
- 5.9 The iTDC shall have 2 levels of individual door opening time setting function.
- 5.10 The iTDC shall have watchdog function for CPU.



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## **6 Communication Specification**

- 6.1 External reader ports included in iTDC shall support 26 bit wiegand and 4/8 bit burst.
- 6.2 The iTDC shall provide RS232, RS422 and TCP/IP. iTDC can be connected up to 32 channels through each RS422 line.
- 6.3 The iTDC shall support baud rate of 9600bps (factory default), 4800bps, 19200bps, 38400bps.
- 6.4 Input and Output as following shall be provided by the iTDC
  - 6.4.1 The iTDC shall have 7 insulated input ports.
  - 6.4.2 The iTDC shall have 7 output ports as following, 4 form-C relay (Com, NO, NC) Rating and 3 TTL.

## **7 Environmental Specification**

- 7.1 Operating Temperature
  - 7.1.1 The iTDC shall operate temperature between 0° C ~ +65° C.
- 7.2 Operating Humidity
  - 7.2.1 The iTDC shall operate humidity between 10% ~ 90% RH(Non-condensing)

## **8 Certification and Approvals**

- 8.1 The iTDC shall have following certification
  - 8.1.1 FCC certification
  - 8.1.2 CE certification
  - 8.1.3 UL certification
  - 8.1.4 ROHS certification

### **Technical Support Contact Information:**

#### **IDTECK**

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