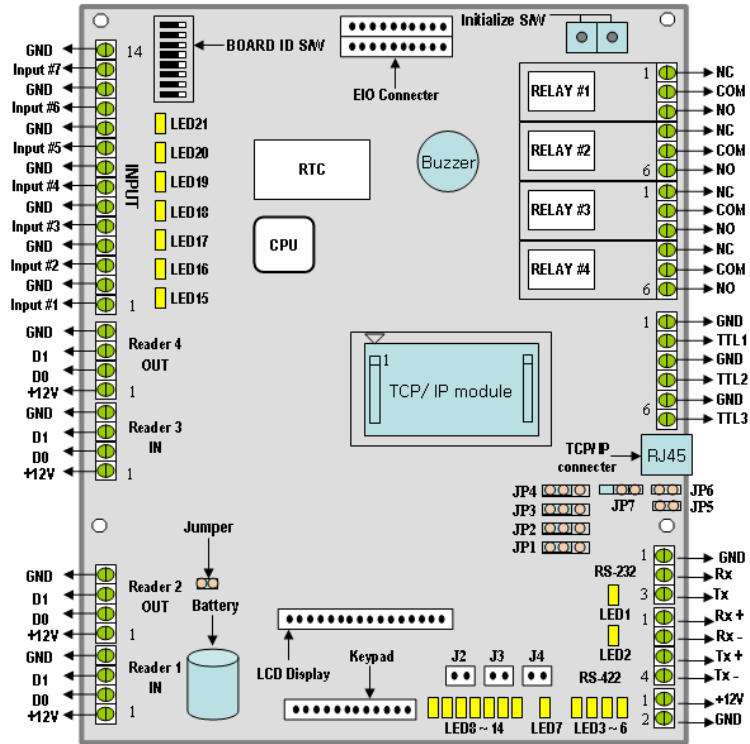


## 1. Check Environment

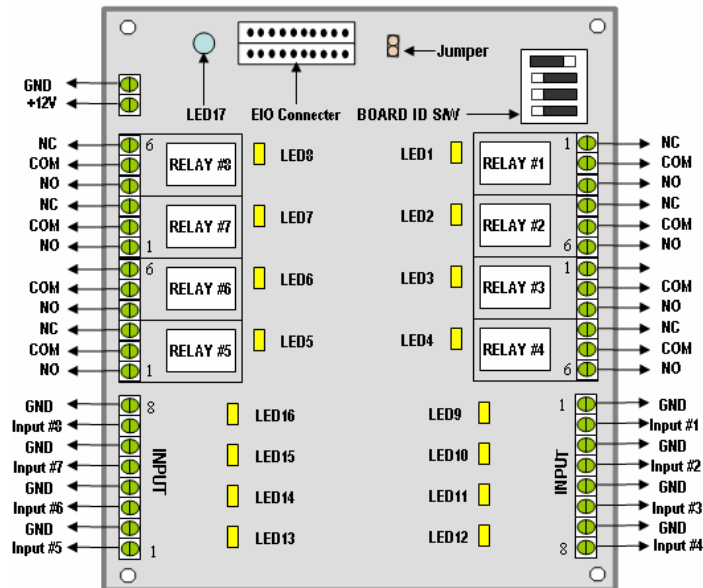
### 1.1 Check the power source

Before wiring, please check the voltage/current (DC12V/350mA) that will be input to the iTDC.

### 1.2 iTDC Connection Diagram



### 1.3 EIO88 Connection Diagram



## 2. Setup Hardware

### 2.1 Backup Battery setup and Hardware Initialization

2.1.1 It explains how to operate the switch for backup battery switch connection in order to keep the memory data. For normal use, the switch should be connected as the picture below so that there is no any data loss.

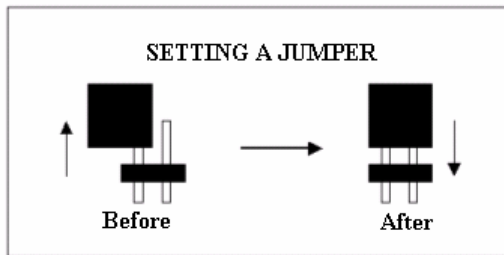


Figure: JUMPER SETTING

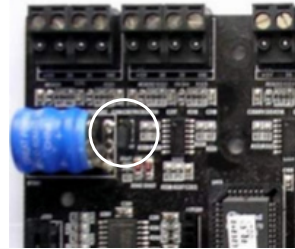
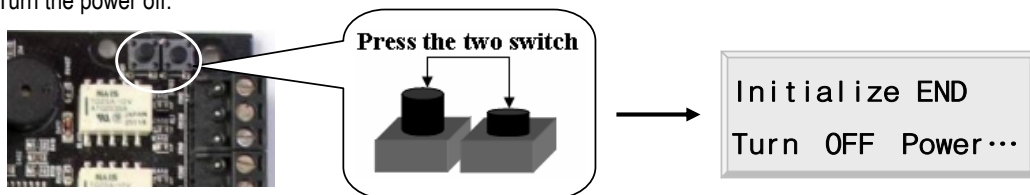


Figure: Jumper location

2.1.2 Press the two initialization switches simultaneously while the power is ON.

2.1.3 The message "Initialize END Turn OFF Power..." will be shown on the LCD.

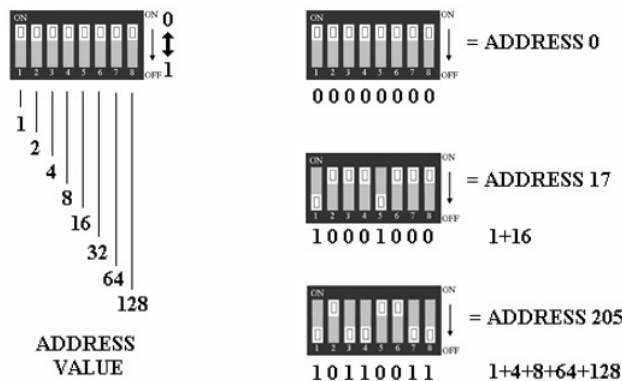
2.1.4 Turn the power off.



2.1.5 When communicating, each device number is setup though 8bit DIP switch.

Each device number is 8bit and express "000 ~ 255" and please refer to the table below to set up.

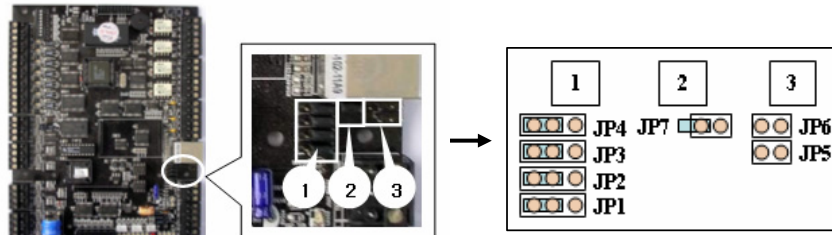
#### Example



	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
2	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
3	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF
4	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
5	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
6	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
7	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
8	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

Table 1 : The relation between Setting and DIP switch

2.2 iTDC (over V3.0) Communication Jumper switch setup



- 1) Jumper switch for TCP/IP, RS422 Communication selection
- 2) Jumper switch for TCP/IP module selection  
IIM7100 (IGM7100), IIM7100A
- 3) Jumper switch for 422 communication test (at Setup F4)

2.2.1 Jumper Switch Setting

Before the RS422 Communication, the jumper switch needs to be setting with the figure of the below.

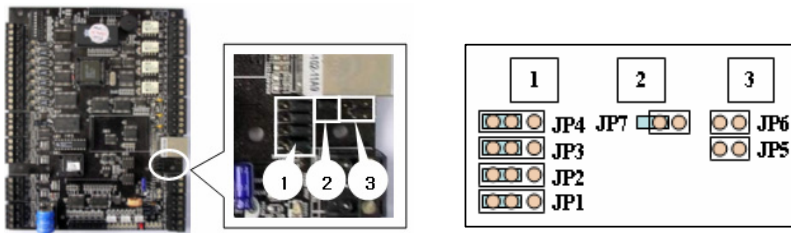
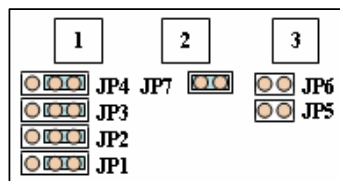
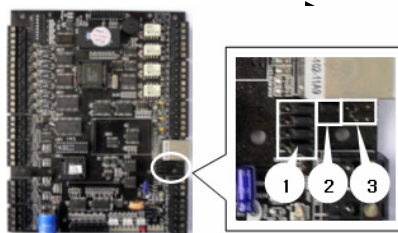


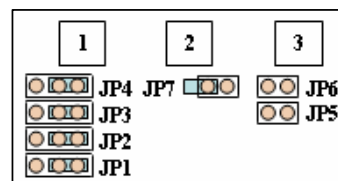
Figure: Jumper Switch location and setting for RS\_422 communication

2.2.2 Jumper Switch setting (Over STAR iTDC V3.0)

Before the LAN (TCP/IP module) Communication, the jumper switch needs to be setting with the figure of the below.



IGM7100 (In case of old module)



IIM7100A (In case of new module)

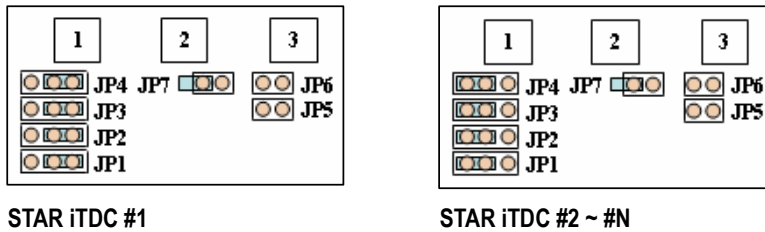
Figure: Jumper Switch location and setting for LAN (TCP/IP module) communication

**2.3.2 Multi drop Connection (by TCP/IP internal module)**

This uses LAN (TCP/IP) communication between multiple **STAR iTDCs** and a host computer.

Install the same as <Figure: Multi drop connection (by TCP/IP internal module)>.

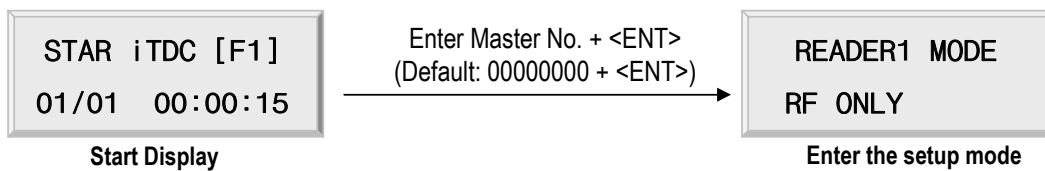
Set the jumper switch the same as <Figure: Jumper switch setting for Multi drop connection (by TCP/IP internal module)>



In this example **STAR iTDC #1** uses IIM7100A.

Figure: Jumper switch setting for Multi drop connection (by TCP/IP internal module)

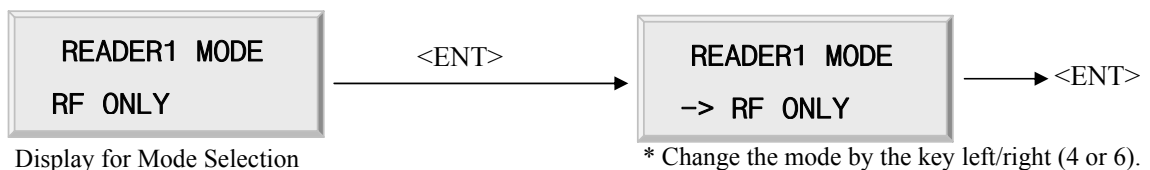
**3. Setup Controller parameter**



Key 4 or 6: Left/Right  
Key 2 or 8: Up/Down  
ENT: Change or Enter  
ESC: Cancel

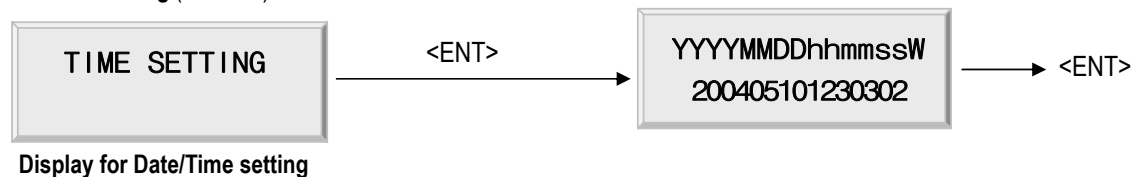
In the case of iTDC-SR, Press <0> key (Default setting "000000000")  
10 times to enter the **SETUP MENU**.

**3.1 Mode setting (F1 Menu)**



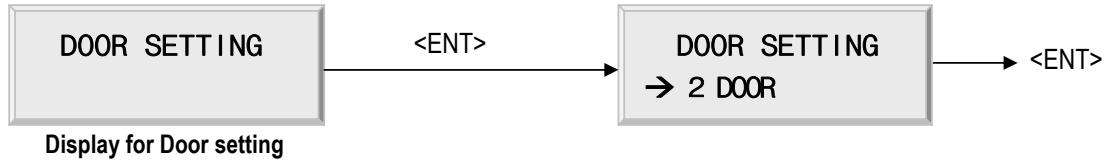
RF Only: In/Out by Card  
RF + P/W: In/Out by Card + Password  
\* READER2, READER3 and READER4 MODE setup is the same.

**3.2 Date/Time setting (Enter F2)**



YYYY: Year, MM: Month, DD: Date  
 hh: Hour (24 hour-system), mm: Minute, ss: Second  
 W: Sun=1, Mon=2, Tue=3, Wed=4, Thu=5, Fri=6, Sat=7  
 Example: 200405101230302 => 12:30:30, Monday, May 10, 2004

**3.3 Door setting** (Select "DOOR SETTING" Menu by the Key 4 or 6)



**2 Door Setting**

	Entry(external)	Exit(internal)
Door1	Reader #1	Reader #2
Door2	Reader #3	Reader #4

\* Reader #1 is installed outside the door #1 and Reader #2 is installed inside.

**3 Door Setting**

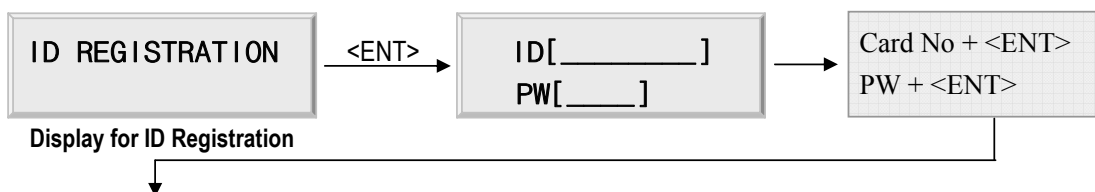
	Entry	Exit
Door1	Reader #1	Reader #2
Door2	Reader #3	EXIT Button
Door3	Reader #4	EXIT Button

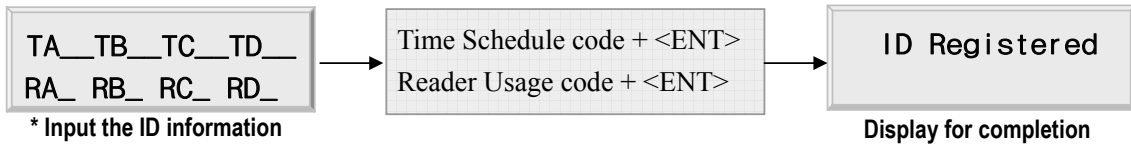
**4 Door Setting**

	Entry	Exit
Door1	Reader #1	EXIT Button
Door2	Reader #2	EXIT Button
Door3	Reader #3	EXIT Button
Door4	Reader #4	EXIT Button

**Note!** This must be setup first before other setup.

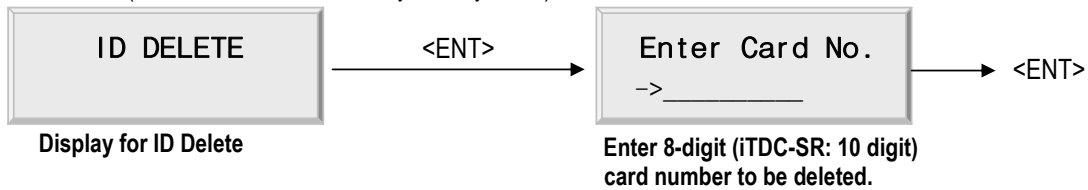
**3.4 Card Registration** (Enter F3)





< INPUT THE ID INFORMATION >  
 ID : Enter 8-digit (iTDC-SR: 10 digit) card Number.  
 PW : Enter 4-digit Password.  
 TA ~ TD : Time Schedule code (Enter "00" for default setting)  
     - TA: Reader1, TB: Reader2, TC: Reader3, TD: Reader4  
     - Selected T/S code applied  
 RA ~ RD : Set Reader Usage code (Enter '1' for default setting)  
     1 - If the user puts '1' for RA, then the Reader 1 is accessible.  
     0 - If the user puts '0' for RA, then the cardholder cannot  
         access through the Reader 1.

**3.5 Delete Card** (Select "ID DELETE" Menu by the Key 4 or 6)



**4. Normal Operation**

**4.1 Power ON**

When the power is applied to iTDC, the **Red LED** (LED3) is turned on.

**4.2 Registered card reading**

When a registered card (or PIN) is read (at Reader 1), the Door Relay will be opened for 3 seconds (Default) with the **LED1** light on.

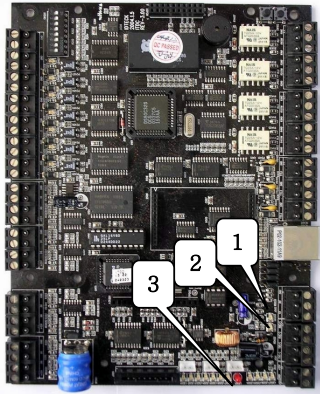
**4.3 Exit Button**

The Exit1 Button or the Exit Reader (Reader 2) can be used to exit the door.

When the Exit Button is pressed, the door will be opened for 3 seconds with the **LED1** light on.

**4.4 Alarm (Unregistered ID/PW Error/TS Error/Door Error)**

When an unregistered card is read, or any wrong password is input, or any error over the time schedule and the door access is occurred, the access is denied and the alarm Relay will be activated for 3 seconds (Default) with the **LED2** light on.



LED1: Communication Status (Receive)  
LED2: Communication Status (Transmit)  
LED3: Power ON/OFF Status