1. Applications

1.1. Peer to Peer

In this mode, there are 3 kinds of setting type for choosing. See the following table for more setting info and limitation.

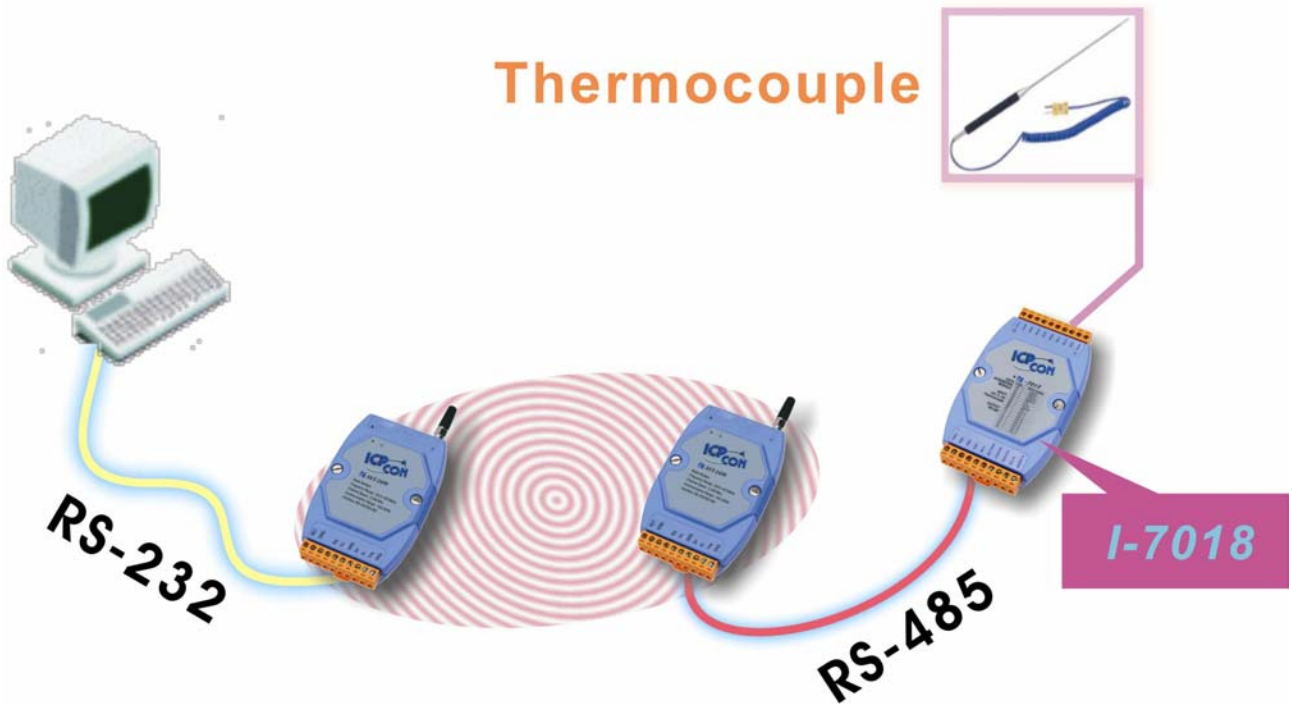
Mode 1	***Description:*** In this mode, the SST-2450 can accept and transmit any signal from device. This mode is worked by the way of sample and rebuild. The SST module samples the input signal then turns it into wave signal and transmits it to another SST module. When another SST module receives the wave signal, it turns the signal into original signal. The samples rate is 32K per second. So it can not accept higher speed signal. The limitative speed of signal is less than 9600 bps. Don't care nay data format in this mode. ***Limitative Setting:*** Baud Rate under 9600bps; Full-Duplex; Asynchronous; One SST-2450 is Master the other is Slave.
Mode 2	***Description:*** Simulate the Full-Duplex type. You can receive and transmit the signal at the same frequency. In this mode, the RF processor uses the time-controlling to simulate the Full-Duplex. At the first, the module which set master is in transmissive mode. After 4ms, it become receivable mode, another slave module is inverse. If master is in the transmissive mode, but there is a signal which is transmitted by slave at the same time; this signal will be stored in the buffer and will be received when master is in the received mode. In Mode 2, the RF signal will be processed by a 8051 CPU, so it need the fixed data format N,8,1 or E,8,1. ***Limitative Setting:*** Full-Duplex; Synchronous; One SST-2450 is Master the other is Slave.
Mode 3	***Description:*** Simulate the Half-Duplex type. One device will response when it get command from the other device. This is the one mode which support SST-2450 network (refer to the page7). This mode is also need fixed data format. ***Limitative Setting:*** Half-Duplex; Synchronous; Both SST-2450s are Slave.

- **You can refer to the chapter 5 for more setting argument info.**

1.1.1. PC to PC -- *Using Mode 1*

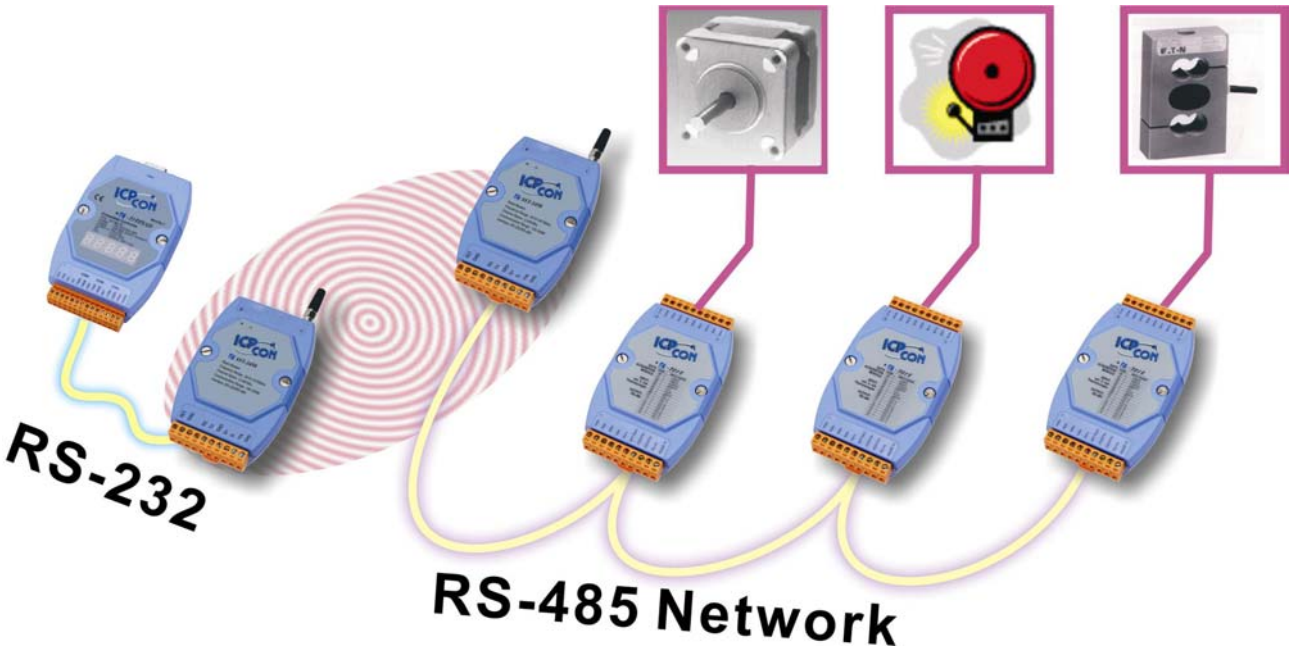
Full-Duplex	**Full-Duplex**
Asynchronous	**Asynchronous**
Master	**Slave**
Baudrate: 9600bps Max.	**Baudrate: 9600bps Max.**

1.1.2. PC to 7000 module – *Using Mode 2*



Full-Duplex	**Full-Duplex**
Synchronous	**Synchronous**
Master	**Slave**
Baudrate: 57600bps Max.	**Baudrate: 57600bps Max.**

1.1.3. 7188 Embedded Controller to 7000 module – *Using Mode 3*



Both SST-2450 modules are setting as follows:

Half-Duplex

Synchronous

Salve

Baudrate: 57600bps Max.

1.1.4. PC to PLC – *Using Mode 3*

Both SST-2450 modules are setting as follows:

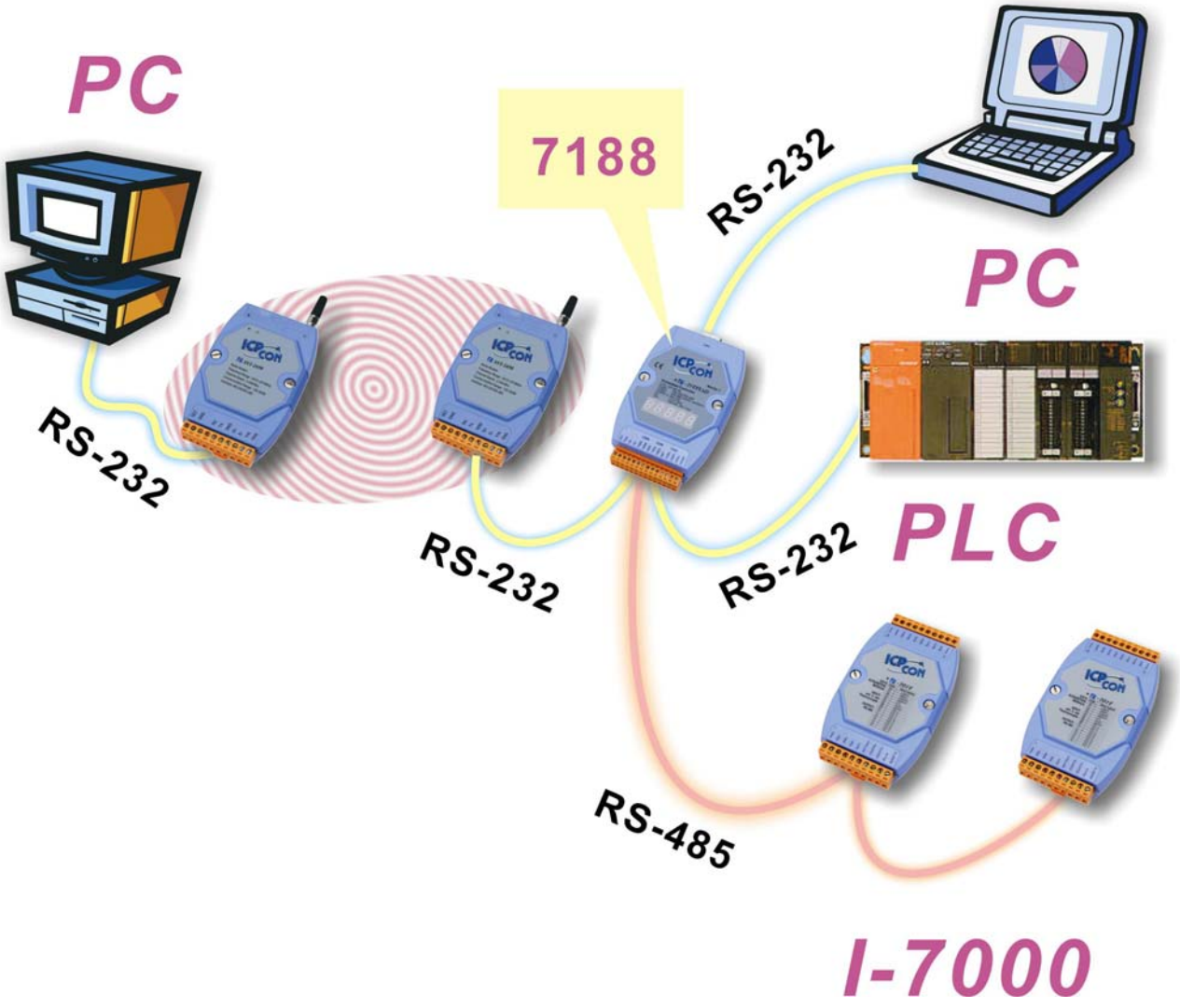
Half-Duplex

Synchronous

Salve

Baudrate: 57600bps Max.

1.1.5. 7188 as a Bridge -- *Using Mode 3*



Both SST-2450 modules are setting as follows:

Half-Duplex

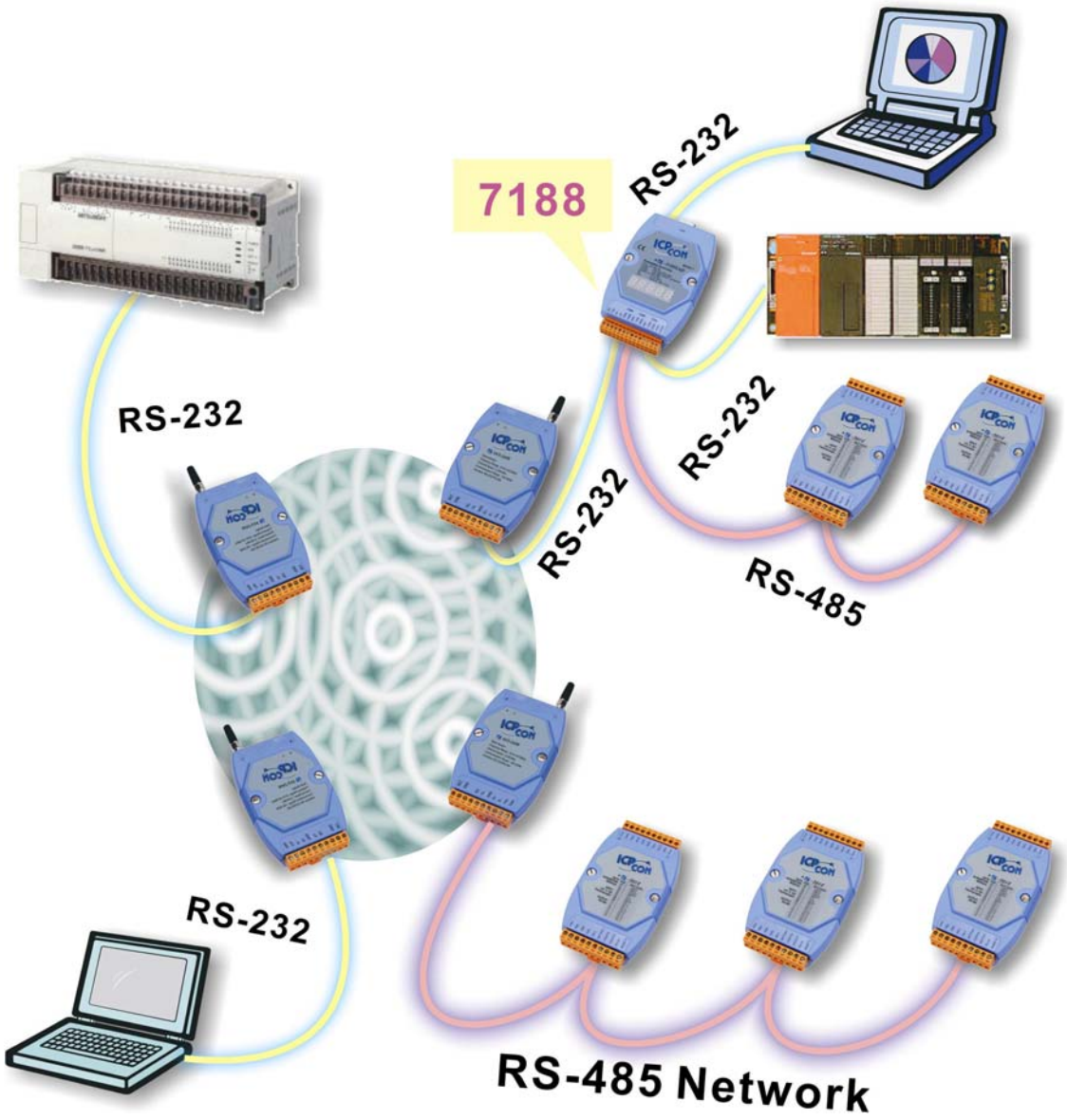
Synchronous

Salve

Baudrate: 57600bps Max.

1.2. Network commutation

1.2.1. Application 1



<u>All SST-2450 modules are setting as follows:</u>

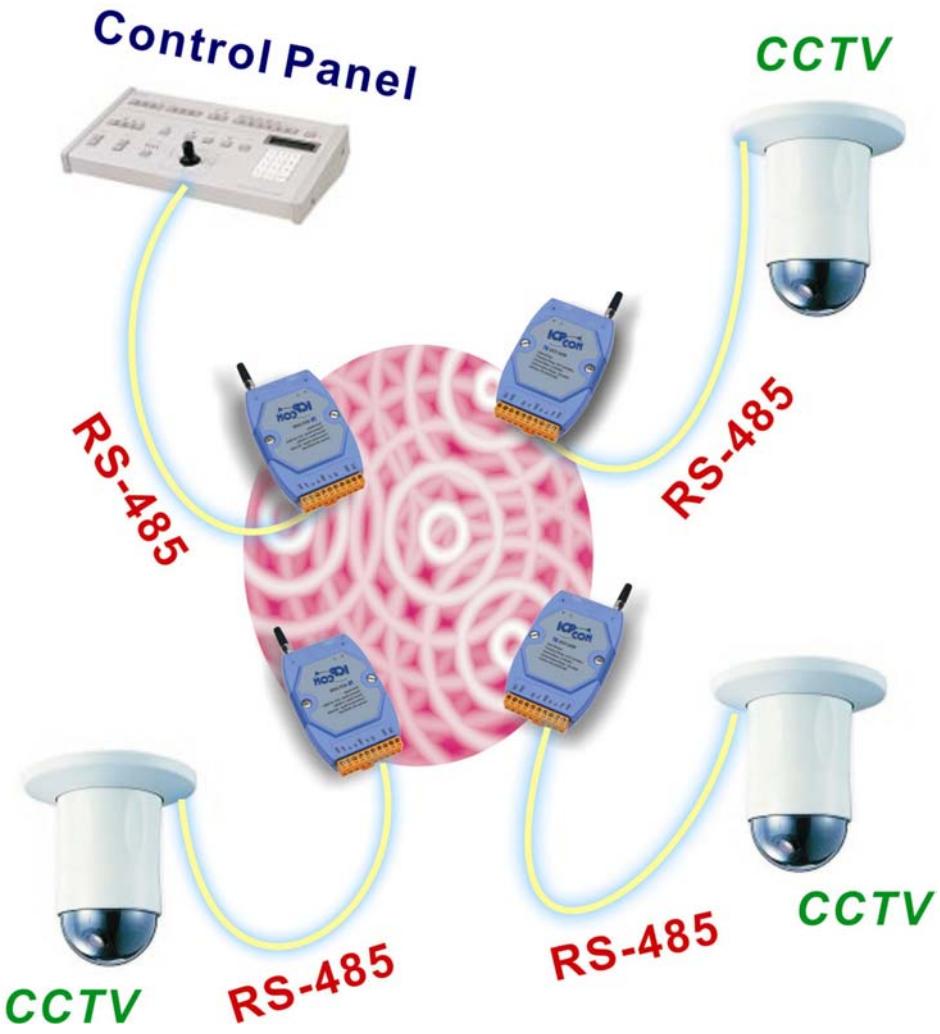
Half-Duplex

Synchronous

Salve

Baudrate: 57600bps Max.

1.2.2. Application 2



<u>All SST-2450 modules are setting as follows:</u>

Half-Duplex

Synchronous

Salve

Baudrate: 57600bps Max.

Data Format: E,8,1