Single and Tri-color led message board with Asynchronous control system

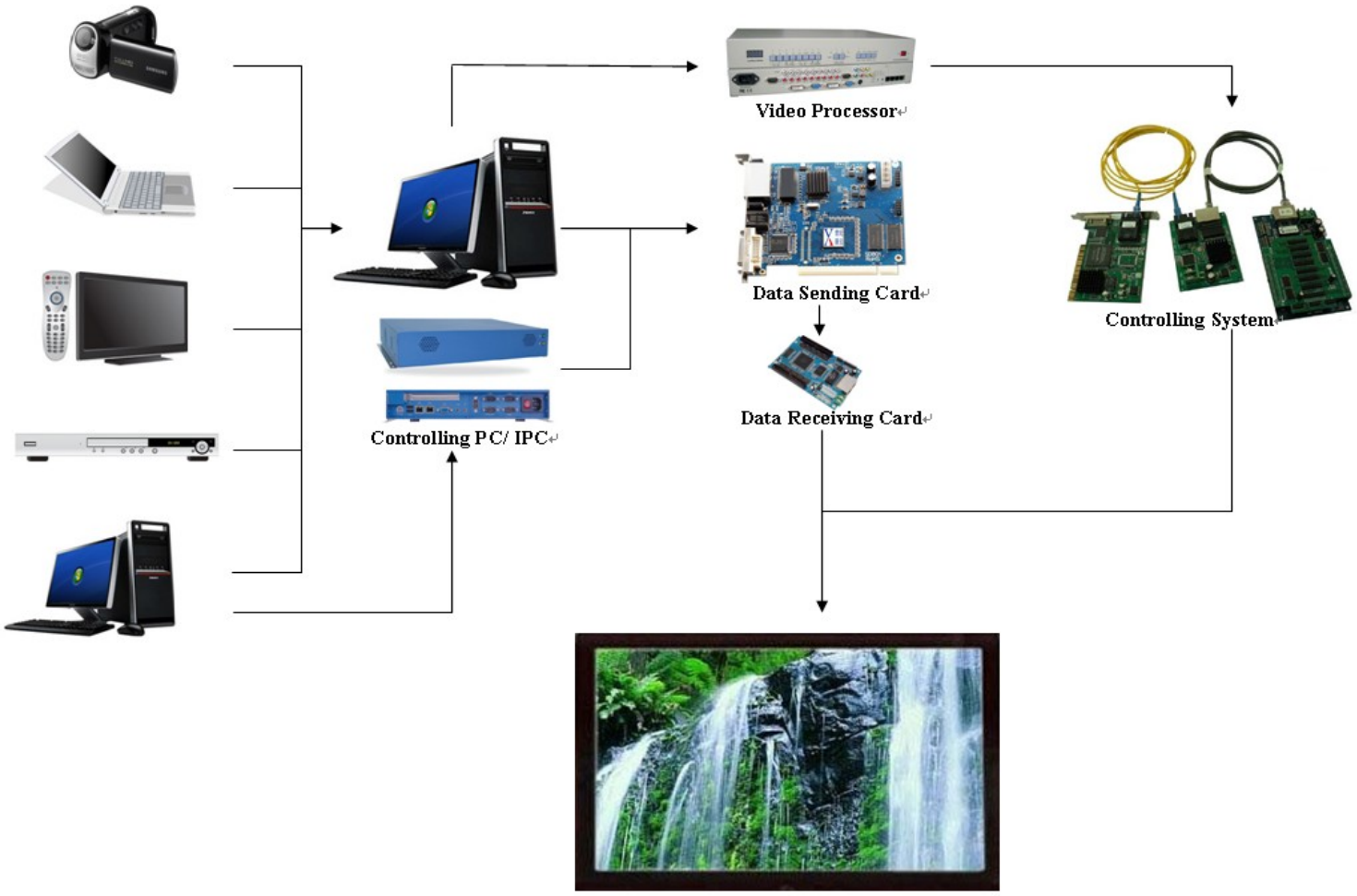
----------Message board with Wireless sending & receiving modules

Part 1： Controlling system

When talk about controlling system, you may be told there are two kinds of controlling system: one is synchronous control system. On the contrary, another is asynchronous controlling system.

For details, Synchronous and asynchronous controlling system both include full color and single and tri-color system. Such as, Synchronous full-color, Asynchronous full-color, Synchronous single and tri-color, asynchronous single and tri-color card.

Led display synchronous control system (Linsn)



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What is the difference between synchronous control system and asynchronous?

In brief, Synchronous & asynchronous refers to the controlling PC working together with the LED display or not.

Synchronous means when the LED display screen system is working, the controlling PC must open and cannot be closed.

Asynchronous control system means when the LED display is working, the controlling PC can be closed and has not further relationship with the LED display, the LED display can work independently after the basic set up and the program making.

Part2: Features of Wireless sending & receiving modules

1. Power and receiving sensitivity ： Transmission power: 5W, RX current: <45mA, TX current:1.5A. High receiving sensitivity: -123dbm.

2. High anti- interference and low BER(Bit error Rate)

3. Long transmission distance

4. Multi- channel

5. High speed wireless communication and Large data buffer zone

6. High reliability, small and light

Part 3： Message board with Wireless sending & receiving modules

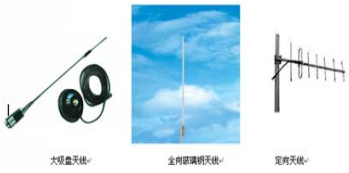
1> The necessary equipment:

1) Wireless sending & receiving modules:

JZ 874

Antenna for JZ874

JZ 878



Antenna for JZ878

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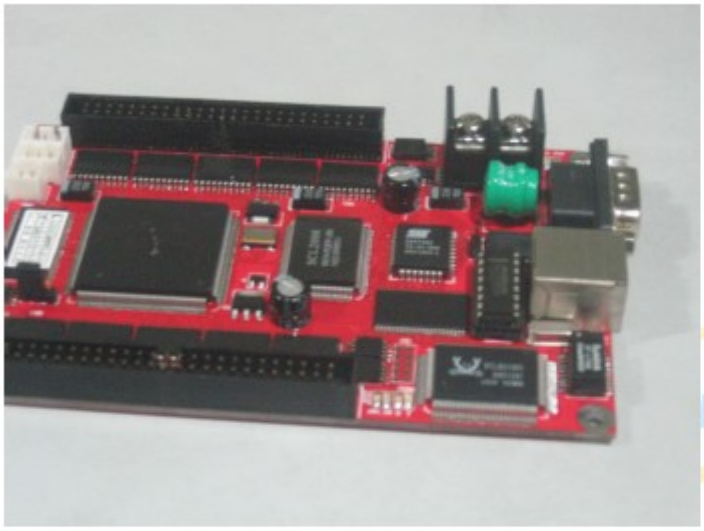
2) Asynchronous controlling card

LED Display Screen Asynchronous Control System(SCL & Supercomm series)	
	
SCL2008 Tri-color LED screen control system	SuperComm-A Tri-color LED screen control system
Description: **Tri-color no gray** **4032 x128 line, 2,048 x256 or 1,024 x512 row lines (field frequency 60Hz)** **2048 x128 line, 1024 512 x512 x256 row or rows (field frequency 120Hz** **Three color no gray**	**Description:** **Tri-color 960 x512 256 gray,** **Three-color 640 x320 with 64 levels of gray,** **Three-color 640x60-line 64-line interlaced RGB gray scale transfer (fence light program)**

3) Message led display screen

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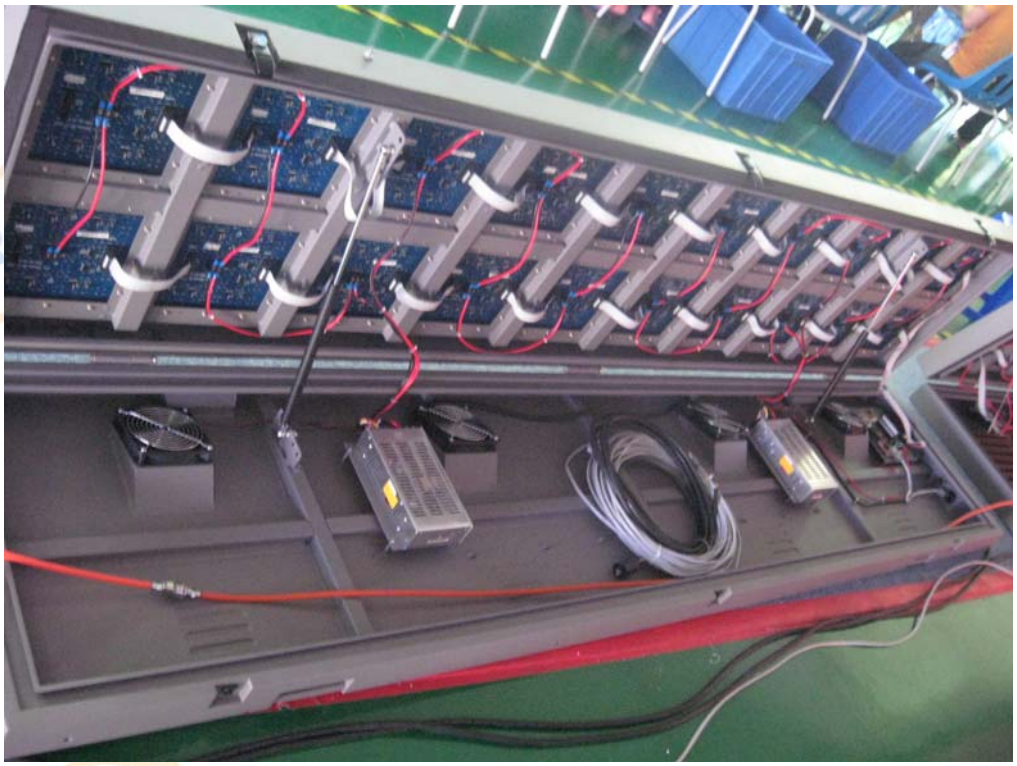
2> Equipment Assembly

1) Cabinet Assembly: line of connection

Full color led screen :Power and date cable connect from outside of cabinet with aviation connector

Full color led screen: Power and date cable connect from inner of cabinet without aviation connector



For single and tri-color led display, there is only one way to connect cable: **inner of cabinet!**

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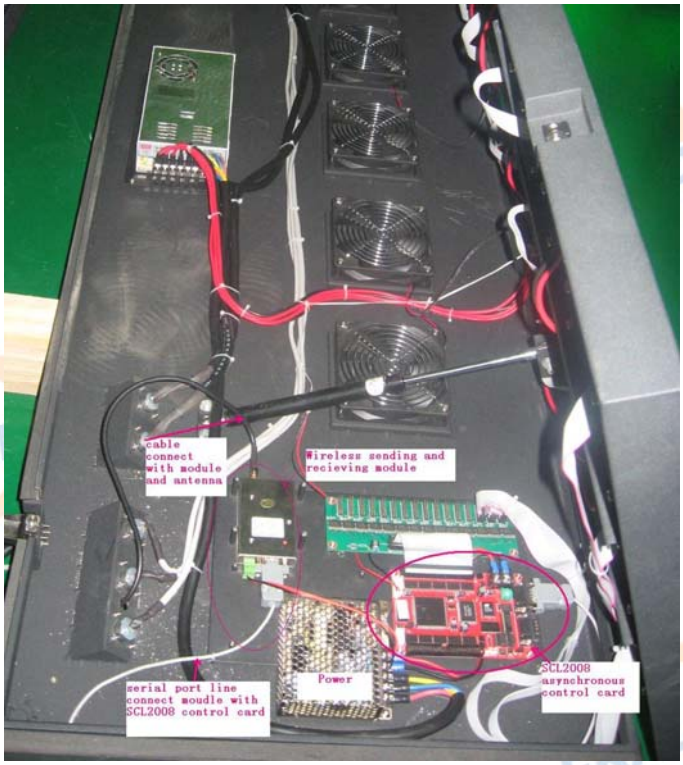
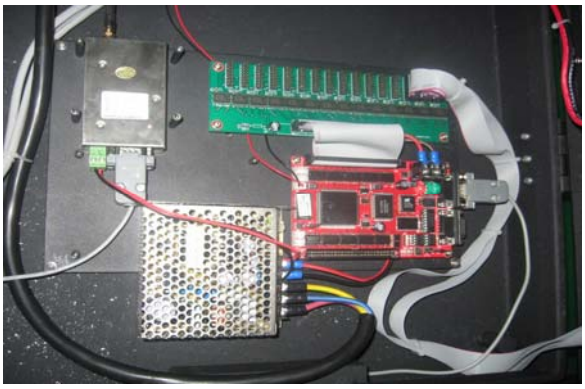
2) Wireless sending and receiving module and asynchronous control card assembly

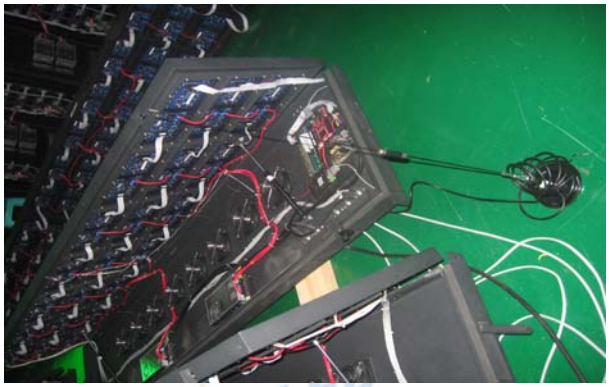


Whole viewing of assembly cabinet, wireless sending and receiving module & antenna and SCL2008 control card.



Serial port line connect wireless module with control card

Cable connect wireless module connect with antenna



Antenna and cabinet

Wireless module and antenna with the PC

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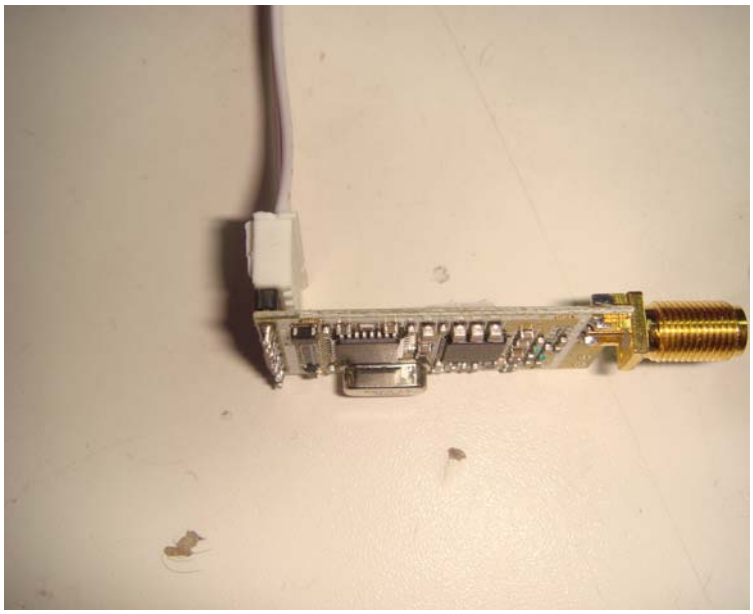
3) Details viewing of wireless sending and receiving module

Sending card of wireless module

Receiving card



Inner side of receiving module

Wireless antenna

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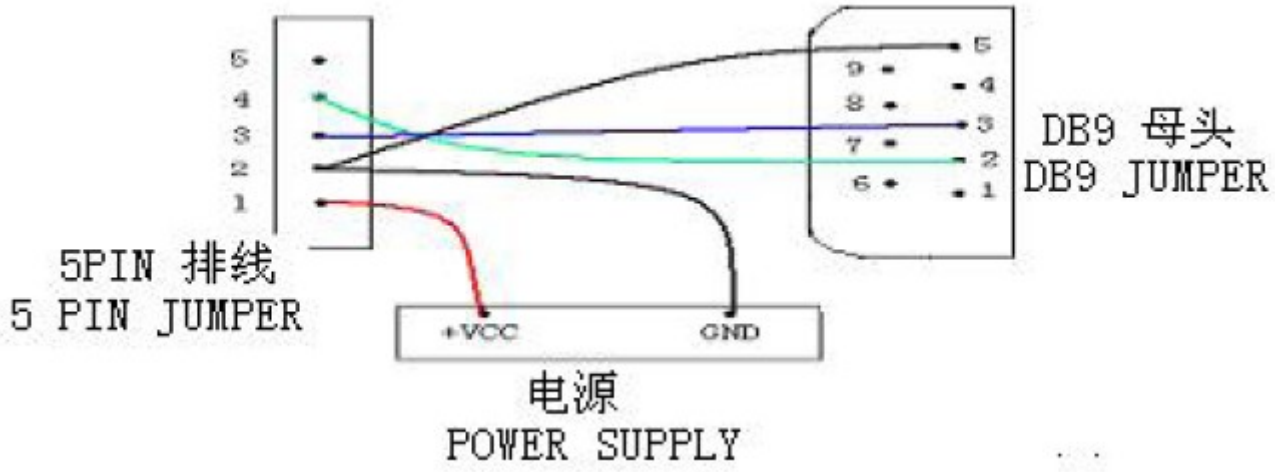
3> User manual of wireless sending and receiving modules.

First step: Connecting led controller with computer by 232 cable, then in computer, open control software of led control device. Then get parameter (baud rate, check bit, data bit, stop bit) of this led control device. And record it.

Second step: Connecting JIZHUO RF module with computer by 232 cable, then in computer, open setting software such as V3.06, then click button to read RS232 baud rate Check bit, RF channel, RF, baud rate.

Compare the RS232 Baud Rate Check bit of RF module with that of Led controller. If RS322 Baud Rate and Check bit of both are different. You must change the two parameters to the same. Such as if the RS232 Baud rate of led controller is 9600 bps, and the RS232 baud rate of RF modules must be 9600 bps. Check bit is same. The connecting figure is in below.

Third step: If done above things, connecting led controller with RF module



Fourth step: Connecting the 2nd RF module with computer, and open setting software of RF module such as v3.06. And read parameter of the 2nd RF module such as RS232 baud rate Check bit, RF channel, RF baud rate.

Fifth step: Make sure that the channel and RF baud rate of the two RF module are the same.

Make sure that the RS232 baud rate and Check bit between computer and RF module are the same. Make sure the RS232 baud rate and Check bit between LED controller and RF module are the same.

Sixth step: Start software of led controller and set com num and baud rate.

Seventh step: Now you can control your led screen by your computer.

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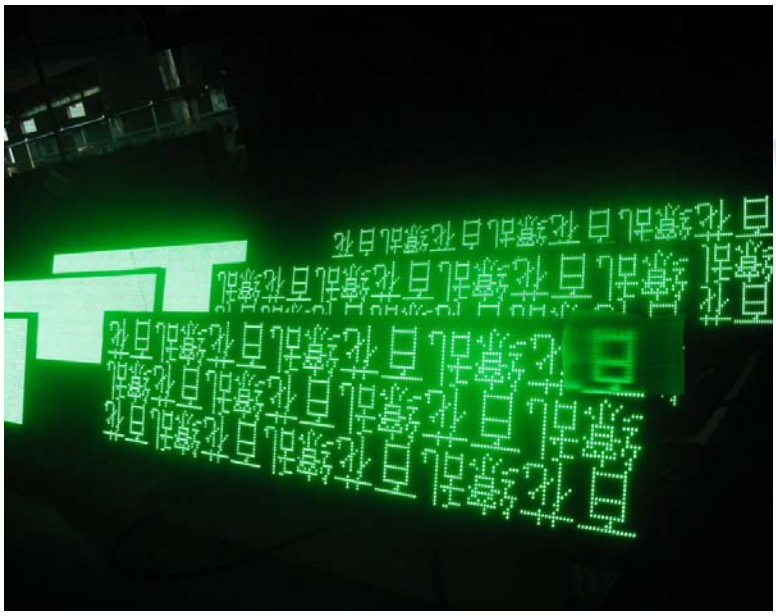
Part 4: Application

1) Single color led sign



P10 1G Single green color

P10 1R Single green color

P16 1A single amber color

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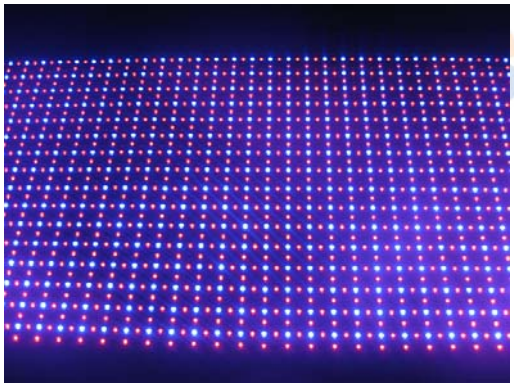
2) Tri-color led sign



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