

Instructions of RS 485 Solution for LED control system

With this new solution, one console will control multi-control cards in the same time and will not create any data flow fees. This solution is mainly applied in subway, bank and factory projects.

1. Traits:

1.1 Theoretically valid distance of RS485 modem could reach to 1200-3000 meters with the help of a kind of repeater. But without this repeater, we recommend customers make the distance range at between 300-800 meters.

1.2 Theoretically one RS485 console-modem could bring 32, 64, 128 or 256 control cards but it will also depends on the communicate chips of control cards and 485 modems. We recommend that one console-RS485 modem brings 80 control cards.

2. Preparation

Hardware: computer

Serial port cable

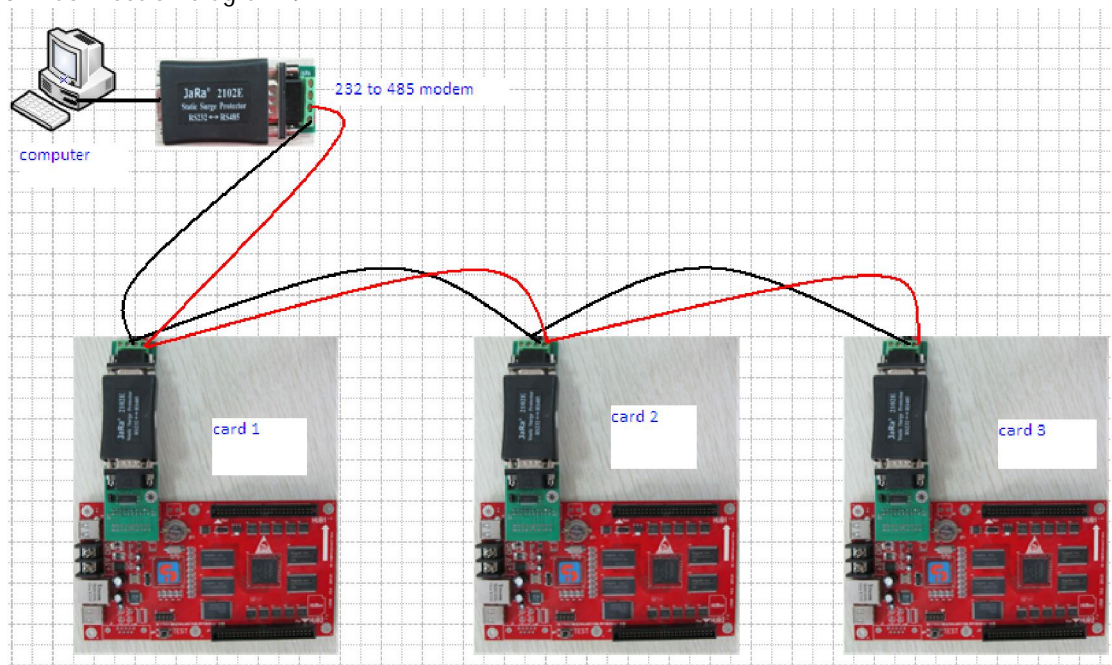
232/485 modem

Xixun control card

Twisted pair

Software: LED editor software, LED set2.0 software.

3. Connection diagram :

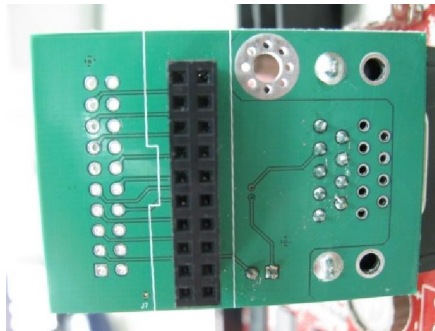


NOTE: Connect computer with 232/485 modem directly, because the com port in computer is male port while 232/485 is female port.

Customer could also connect 232/485 modem with computer via straight-through serial port cable, as shown in below:

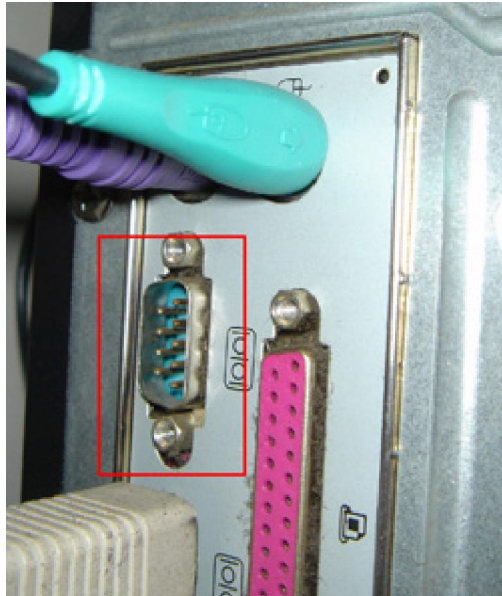


Connect 232/485 modem with card through the green modem, which is supplied by xixun company, as shown in below:



The red and black lines among 232/485 modems are should be twisted pair. Customers prepare these lines by themselves.

Computer serial port like this in below:



Now there are three cards, we can connect more cards in this way.

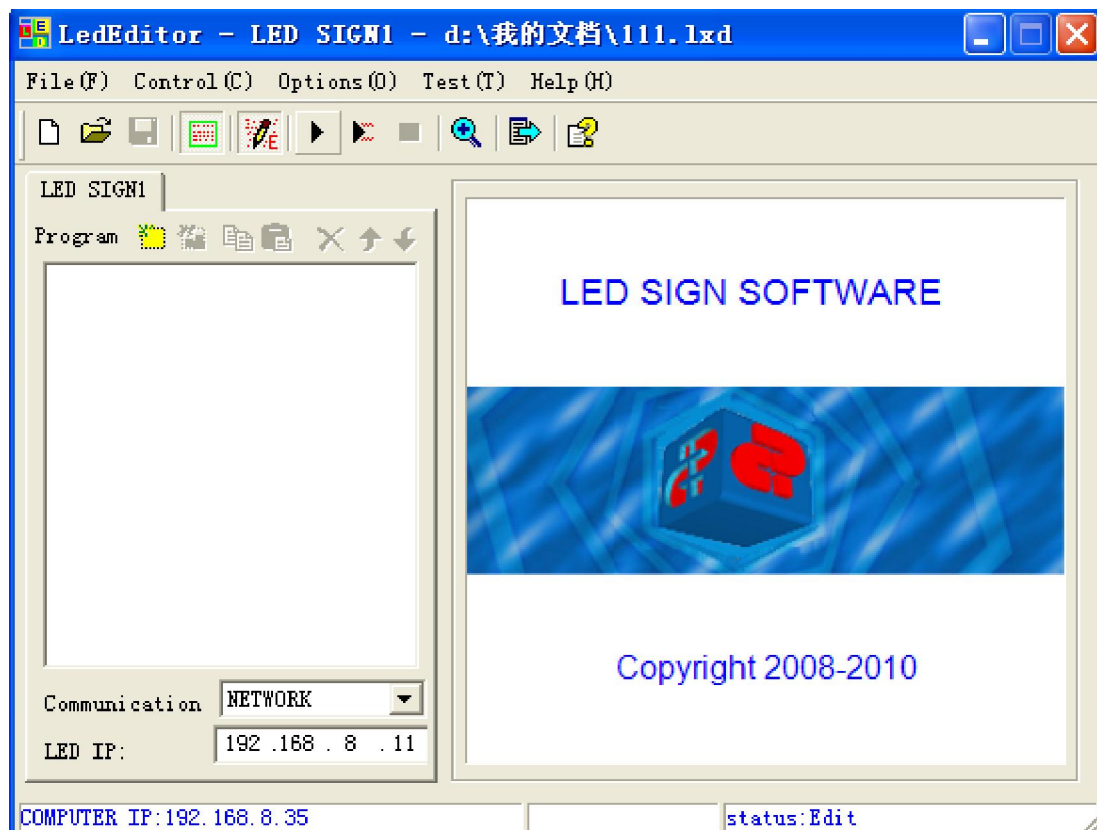
4. Configuration steps

Step1, do setup for all cards by using LEDset2.0

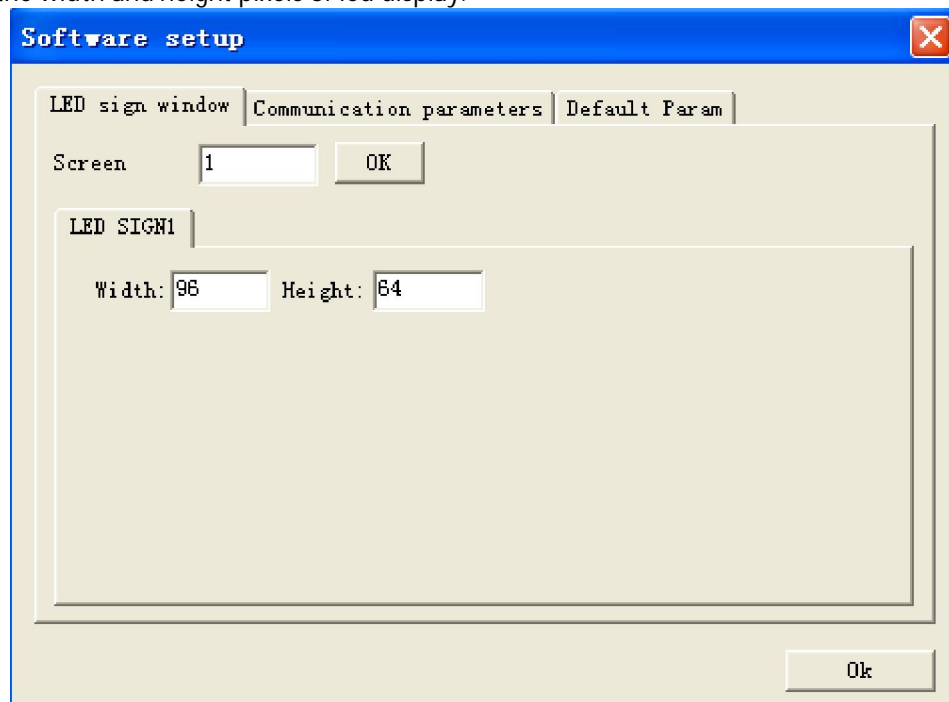
Take control card 1 for example, connect card 1 with computer through network cable. Then open LEDset2.0 software and detect control card IP.

Please click "Start Intelligent setup Wizard" then follow the step1, step2, step3 to finish this wizard and you will get a HCP file. Please save this file in your computer. Please read Instruction of LEDset2.0 software for detail.

Step2, open LED editor software to set hardware parameters



Please open LED editor software then click on Options→ software setup→ LED sign window, here input the width and height pixels of led display.



Then click on Communication parameters→ stand alone mode→ Normal→ OK

Software setup

LED sign window Communication parameters Default Param

☒ Stand-alone mode (One project for one LED sign) Normal

☐ Multi-mode (One project for multi LED signs)

Communication: NETWORK

NET: 3G

☐ Auto search LED sign
☐ Auto search LED sign by IP Edit IP
☐ Internet (multi_console) Edit DNS
☒ Internet (single_Console)

☐ startup Password function Password list

Ok

Back to software main interface then click on Options → Hardware setup → password: 888 →

Hardware setup

SCREEN ID: M10-511-00436 Refresh

☐ IP parameter
 IP address: 192.168.0.200
 Subnet mask: 255.255.255.0 Send
 Default: 192.168.0.1

☒ Serial port parameter
 Serial: COM_TTL Send
 Baudrate: 9600

☐ Open internet mapping port 31299 (1~65535) Send

☐ Link Server
☐ Server Domain Domain backup
☐ Server IP Custom Name Send

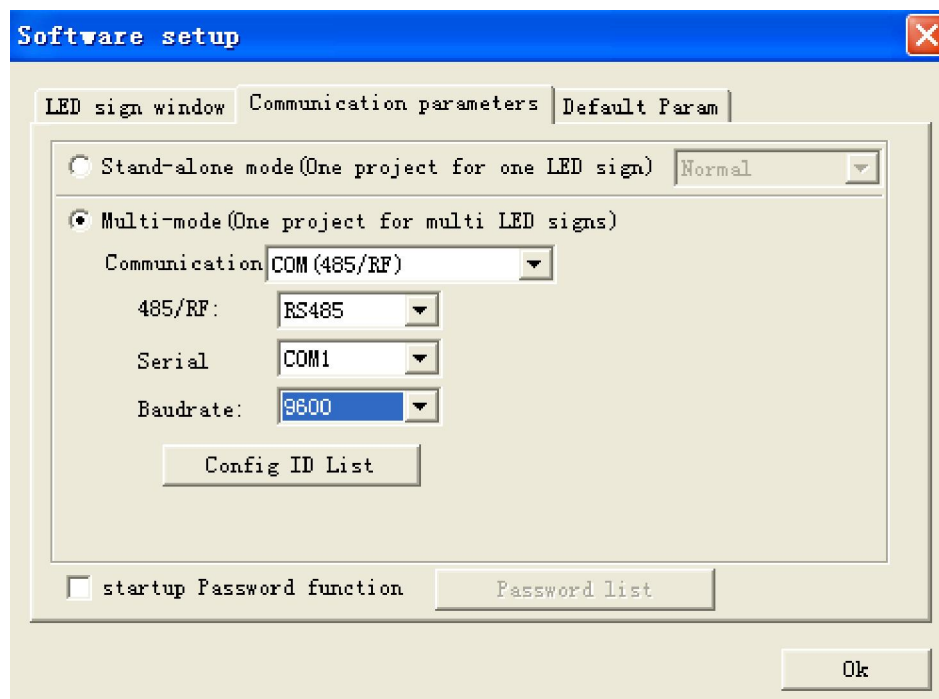
☒ ID config (485 serial or RF) 36 (1~239) Send

☐ Other process Close

Please choose COM_TTL and set the baud rate at 9600. Then click on Send button.

Here, please pay attention to ID config (485 serial or RF), please set an ID number for card1. The software will have a default ID; customer could also set by themselves. After set ID, please press Send button.

Step3, then back to Main interface and click on Options→ software setup→ communication parameters→ multi-mode, as shown in below: password is 888.



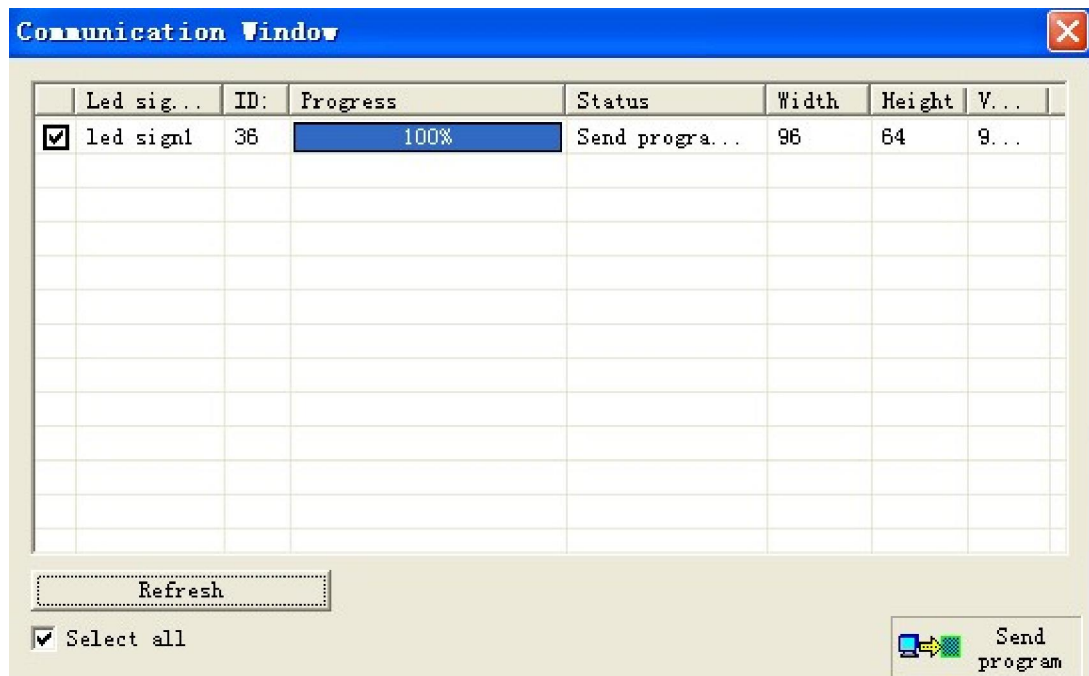
Communication: com (485/RF)

485/RF: choose 485

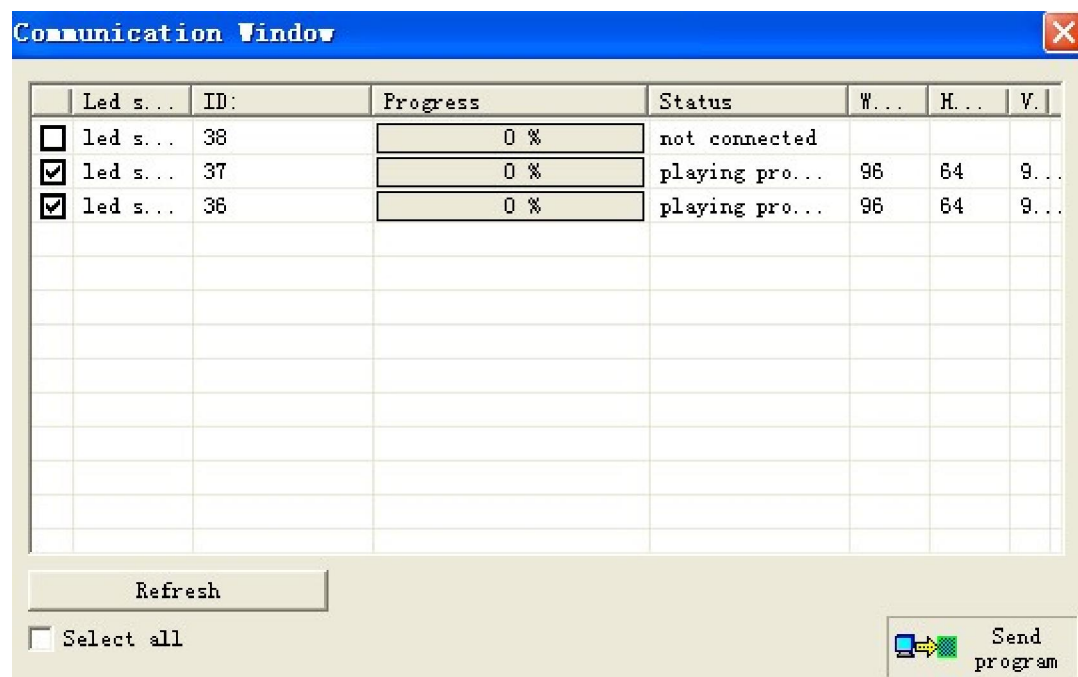
Serial: it is computer's com port, choose right one

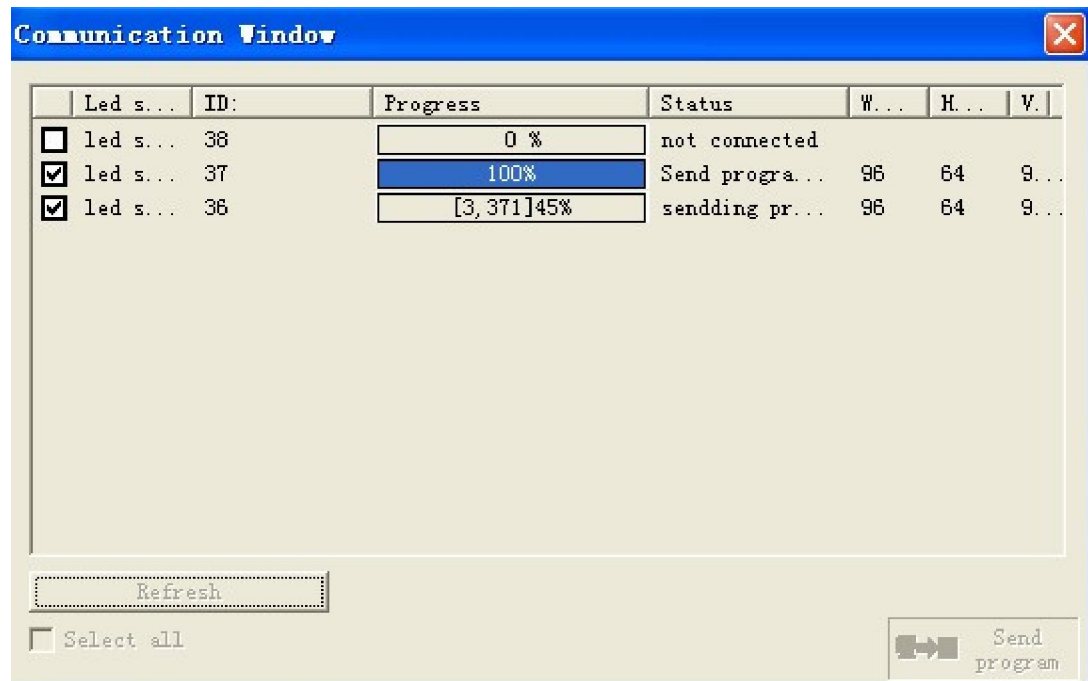
Baud rate: choose 9600, same with that of control card.

Then click on Config ID list, as shown in below:



Steps of control card 2 and 3 are all the same like control card 1, as shown in below:





For more technical support, please send email to wh@xixunled.com, we will connect you as soon as possible.