





3G wireless controller Server solution

Instructions of 3G standard

Controller type	3G type	3G standard	Frequency	Countries and areas	3G label
A31W-E	WCDMA-E	WCDMA	3G : 900/2100MHz GPRS : 850/900/1800/1900 MHz	Europe, Oceania, Africa, Asia (except type J)	
A31W-A	WCDMA-A	WCDMA	3G : 850/1900MHz GPRS : 850/900/1800/1900 MHz	North and south America: United States, Canada, Mexico and so on.	
A31W-J	WCDMA-J	WCDMA	3G : 850(800)/2100MHz GPRS : 850/900/1800/1900 MHz	Japan, Thailand, Israel, Philippines, brazil and so on.	
A31E-C	EVDO-C	CDMA2000 EVDO	3G : 800/1900MHz	China telecom	

Hardware:

1. A-series controller (A10, A20 and A31)
2. 2G/3G SIM card
3. **ATTENTION:** when plug in or out SIM card, need to power off for controller in advance!!

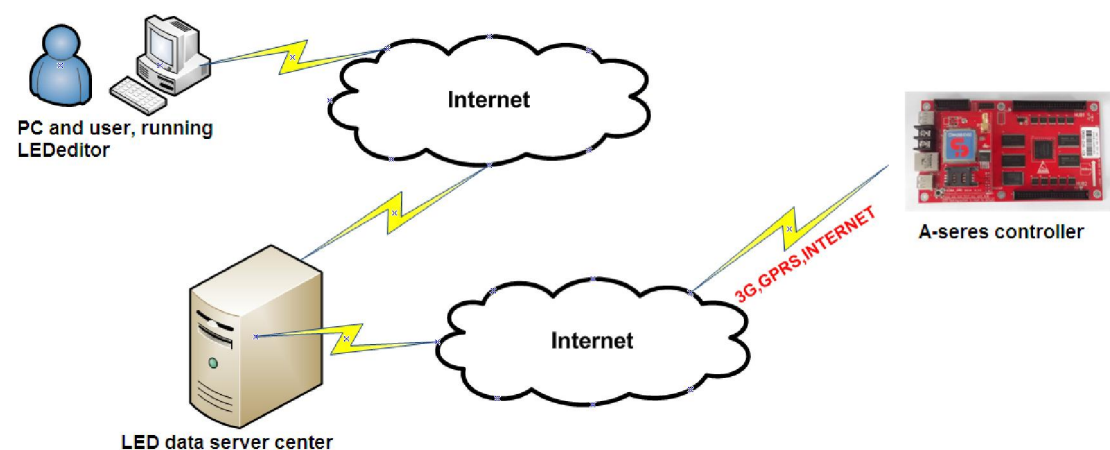
Software:

1. LedEditorV9 (LATEST VERSION on www.ledsign.cc)
2. LedSet2.0 software
3. User name: this is xixun's work; we will apply a user name for each customer
Default password is 888.

Systematic principle:

1. Controller gets access to internet via ADSL, wireless 3G or GPRS.
2. Customer PC accessing to internet could control his cards in remote places.
3. Led data server center works as a hub, exchanging information of controller and LED editor.
4. Data trends: LED editor sending data to LED data server center, server will transfer data to led controller. After receiving data, led controller will send a respond message to led data server center. Finally, led data center feedback this respond message to LED editor.

Connection diagram:



Operations in simple words:

1. In hardware setup, needs to set master name
2. In software setup, needs to login user name and password
3. After login, could check led controllers belonging to the user name and their current status.
4. Checking status or sending messages and so on.

Setup steps:

Step1, please plug 3G SIM card in A card, connect led controller with PC via LAN directly then running led editorV9 and check led controller IP address. Click on Optionsà hardware setup, password is 888.

Hardware setup

SCREEN ID: a31-613-00712

☐ Automatically obtain an IP address

☒ Use the following IP address

IP address: 192.168.0.112 Send

Subnet mask: 255.255.255.0

Default: 192.168.0.1

☐ Serial port parameter

Serial: COM_RS232 Send

Baudrate: 57600

☒ Link Server

☒ Server Domain: www.ledm2m.net Domain backup: Send

☐ Server IP: Custom Name: a31-613-00712 Send

Service port: 50001 status: 3G

☒ Data center

Master: hw Send

☒ Wireless APN: Custom Send 3G status

APN: User: Password:

☒ ID config(485 serial or RF) 0 (1~239) Send FTP Configuration

ID[1-65535] 1

☐ Other process Close

Here, need to press Send button three times, please see the pictures.

1. IP address: controller IP address and Default gateway in the same network segment. Press Send button.

For example: here 192.68.0.112 ----controller IP

192.168.0.1----default gateway

Both of them in the 0 network segment

2. Send the server domain name

3. Send the master name

4. Press **F7** button here then wireless APN option will come out, please write down your SIM card's APN and then press Send button.

Customer needs to get the correct APN, user and password information. See picture in below:

Hardware setup

SCREEN ID:

☐ Automatically obtain an IP address
☒ Use the following IP address
 IP address:
 Subnet mask:
 Default:

☐ Serial port parameter
 Serial:
 Baudrate:

☒ Link Server
☐ Server Domain: Domain backup:
☐ Server IP: Custom Name:
 Service port:

☒ Data center
 Master:

☒ Wireless APN:
 APN: User: Password:

☐ ID config(485 serial or RF) (1~239)

ID[1-85535]:

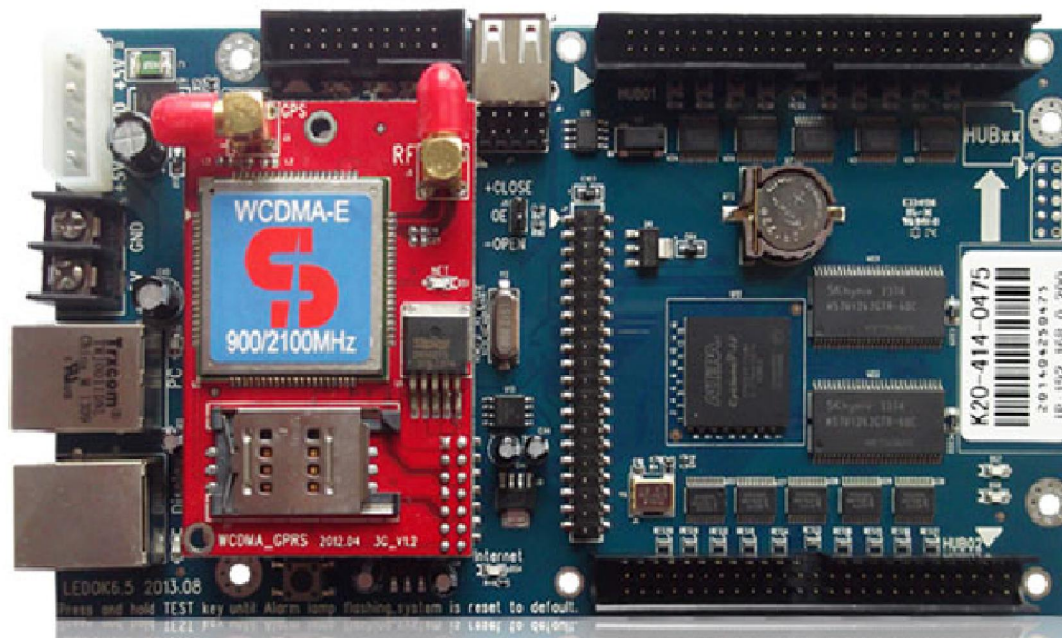
☐ Other process

Step2, 3G status function

After finished step1, the controller will take 1-2 minutes to get online.

Method 1 to check 3G status:

When accessing to internet successful, NET and INTERNET lights on controller will always on. See picture in below:



Method 2 to check 3G status:

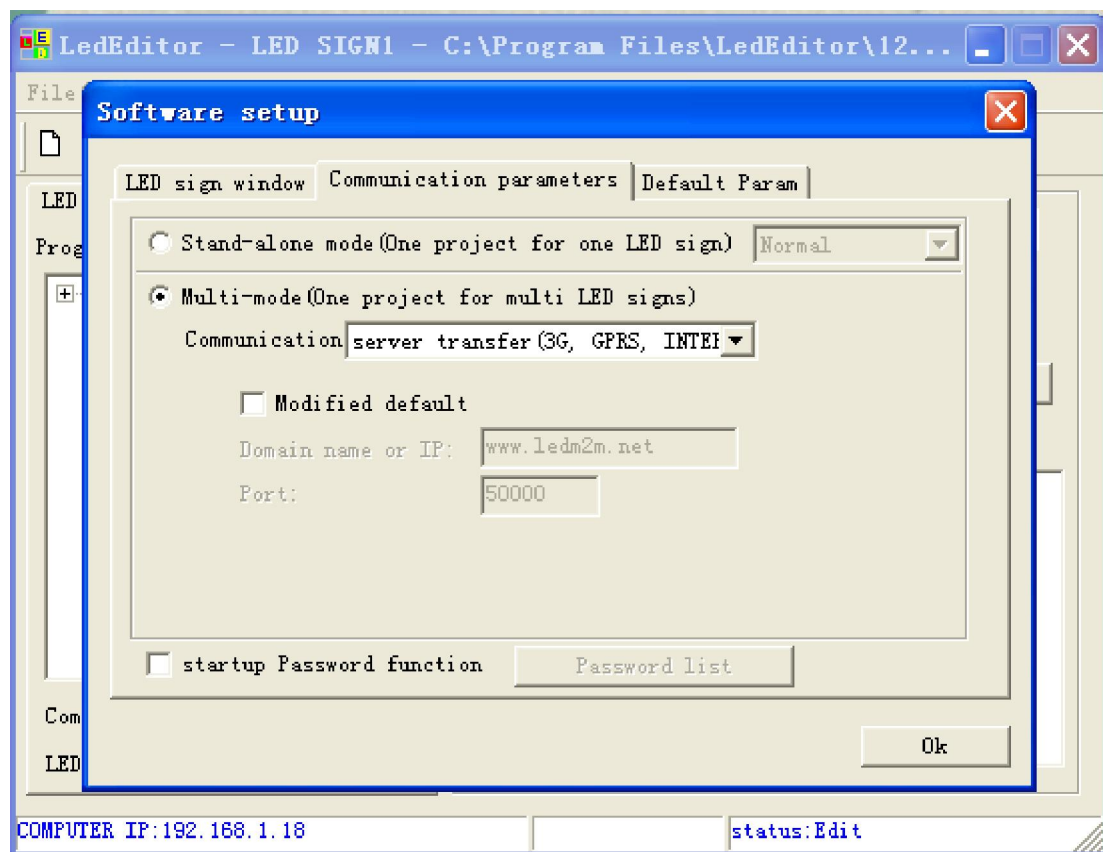
Open lededitorV9 software, enter hardware setup and then click on 3G status button, a dialogue box will pop up:

3G Information		
accessing internet no		
Item	Content	Remark
IMSI	46134100080199	OK
Remark	IMEI number, if no this number means modem is bad or not accessible or connection has problem.	
IMSI	460012161301600	OK
Remark	IMEI number, if no this number means SIM card is bad or unread or connection has problem.	
SIM Idence	99860112818042606489	OK
Remark	SIM number (normally is cellphone number, but will left empty here without setup by manual, can't get automatically).	
APN	3gnet	OK
Remark	3g net	
Carrier name	中国联合网络通信有限公司 (China Unicom)	OK
Remark	operator name	
User		OK
Remark	username (empty is ok)	
Key		OK
Remark	password (empty is ok)	
Model Type	3195320E1Dual-Band UMTS/HSDPA 900/2100MHz, Quad-Band GSM/GPRS/EDGE 850/900/1800/1900MHz.	OK
Remark	3195320E1Dual-Band UMTS/HSDPA 900/2100MHz, Quad-Band GSM/GPRS/EDGE 850/900/1800/1900MHz.	
Module stage	5: 3G access to internet success	WARNING
Remark	3G module stage	
Signal strength	20: signal normal	OK
Remark	for checking signal quality (Green), if signal too weak, advises customer to check antenna connection, normally it is 10~20	
Register	1: the registered local network.	OK
Remark	registration status, in order to get Mobile station registration status, normal number is 1 or 5, if number is 3 means 4G	
MCC	country name	OK
MNC	operator code	OK
way of getting APN	get APN automatically	OK

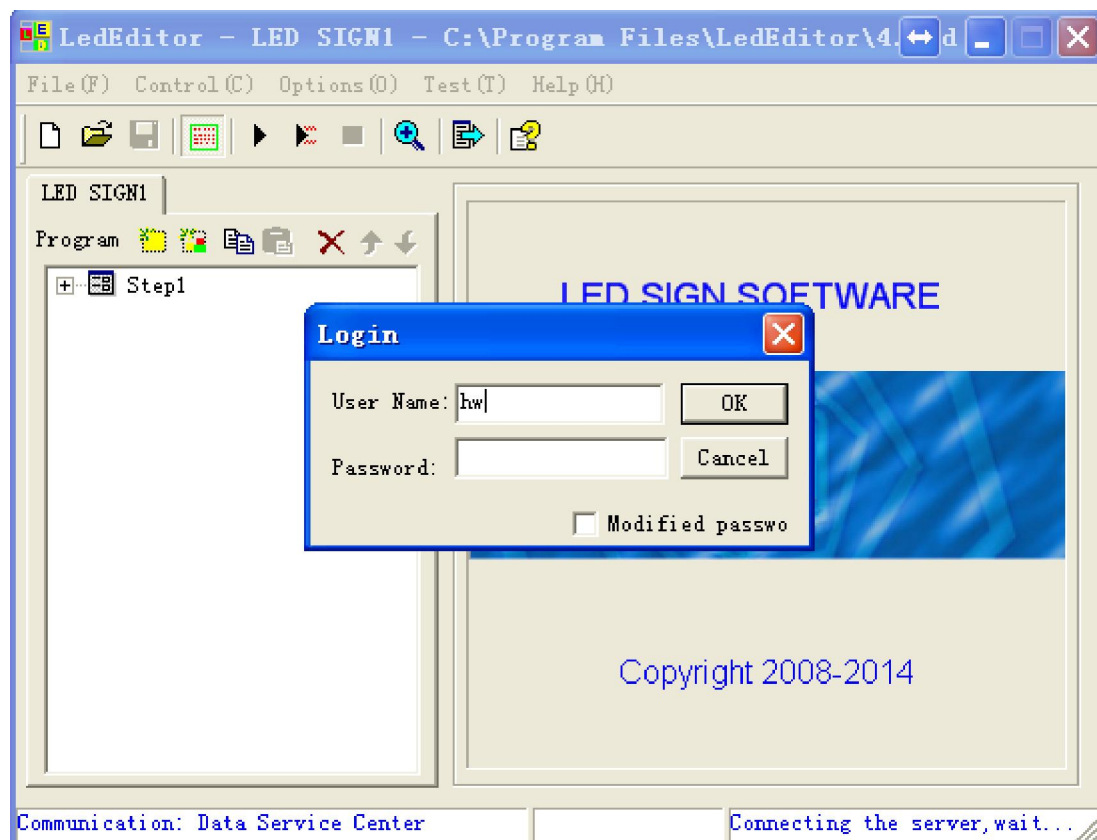
If the module stage is 5, normally means the led controller get online success.

If the stage is 4 means it is not online.

Step3, please click on Options and choose Software setup
Choose the Server transfer and press OK.



Step4, click on Send to Led Sign button and then login user name and password



Step5, choose the card and send program

