

# **User Manuel**

# **6K series controller**

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# User guide

BX-6K series mainly for special applications, flexibly to meet the secondary development and customized requirements.

Based on the font pattern design, it is suitable for update info in real-time .open protocol,easy for secondary development.Support Ethernet ,serial ,wireless communication,widely used in It is widely used in industrial field, matched equipment, logistics warehouse, on-board display, intelligent station and cluster display system. The following will take 6K1 (Network + U) as an example to introduce how to use

BX-6K series controller.

## **Hardware connection**





## **Parameter setting**

## Step1 set communication mode

Open LedshowZK software,click "setup" -> "set screen parameter" ->enter

password "168", then enter "screen parameter setting" interface. Select the controller type and communication mode.



creen list	Screen parameters	Scan Configurations	Wiring Diagram	NET settings	Main Performance
Screen-1	ScreenName Screen-1	Build Address		1	BX-6K1 1. Maximun pixels(dots): Single color 32K(32768) Two color 32K(32768)
	ID	Controller	Communication	Mode	Three color 32K(32768) 2.Display mode:
	<u>[1</u> •	ВХ-6К1 🗸	Network comm 🔹		Single color 512*16,512*32
	Serial Porta	Baudrate	Storage Volu	ie .	512*804 Two color 512*16,512*32 512*64
		[51000 +]			Three color 512*16,512*32
	Width 96 🗇	Height Scr 64 🔹 Tw	een Color Pixe o col 🕶 🛛 I (F	ils +G) ▼	512*64,256*128 3.Communication interface:F 4.Timer support 5.Support full-screen test
	Datd Polarity Positiv +	DE Polarity Sca Low - De	n Frequency Row fault - Nor	Order mal 💌	
	Display type Normal 🔻	Data Flow Lin Normal - No.	e blanking tiLan; rmal 🔻 Sim	plii 🕶	
	ĸ		Read_Back	Write Parameters	
					Close

Image2

## Step 2 Net setting

Click "Net setting ", choice "Direct link" or "Fixed IP mode".

Screen parameters	Scan Com	nfigurations	Wiring Diagram	NET settings
Connection Mode				
🔘 Dirtct	link	• Fi	xed IP mode	
IP Settings				
IP Address		Port		
192.168.0.10		5005		
		Pictur	re 3	

Image3

• Direct link mode

Select "Direct link mode", After setting the width and height, click "load screen parameter".

• Fixed IP mode

```
Select "Fixed IP" mode , click "IP setting
```



Screen list	Screen parameters	Scan Configurations	Wiring Diagram	NET settings	Main Performance
Screen-1	Connection Mode ⑦ Dirtct	link 💿 Fiz	ed IP mode		BX-6K1 1. Maximun pixels(dots): Single color 32K(32768) Two color 32K(32768)
	IP Settings IP Address 192.168.0.10	Port 5005 MAC Setup	÷ IP Setup		Three color 32K (32768) 2. Display mode: Single color 512*16,512*32 512*64 Two color 512*16,512*32 512*864 Three color 512*16,512*32 512*64,256*128 3. Communication interface:R 4. Timer support 5. Support full-screen test
	L				

Image4

In the "IP setting" interface, fill in the IP address, subnet mask, gateway, port and other parameters, and then click "setting" to finish.

Connection Mode	
Screen IP Information	Server IP Information
IP Address	Screen IP Address
192.168.0.10	192.168.0.67
	Server port
Subnet mask	5005
255. 255. 255. 0	
Gateway	Screen heartbeat Server access password(8)
192.168.0.1	
	Heartbeat interval
Port	20
5005	Network ID (12bytes)
	BX-NET000001



Finally, in the screen parameter setting interface, after setting the width and height, click load screen parameter.

#### Step 3 Scan setting

In the "set screen parameters" --click "scan configuration" option ,then go to the scan configuration interface, as shown in picture , user can set "scan mode" "color Channel" "data polarity" OE polarity" chip model "smart scan configuration" and "scan mode export/import"

reen list	Screen parameters Scan Configurations Wiring Diagram NET settings	Main Performance
- Screen-1	© Quick © 1/32 ◎ 1/16 ◎ 1/8 ● 1/4 ◎ 1/2 ◎ Static ◎ Other Single/Double color ▼	BX-6K1
	4.0(2.8)	Single color 32K (32768
	4.1(2.4)	Two color 32K(32768) Three color 32K(32768)
	4.2(2.9)	2. Display mode:
	4.3	512*16, 512*32
	4.4	512*64 Two color
	4.5	512*16, 512*32
	4.6	Three color
	4.7	512*16, 512*32 512*64, 256*128
	4.8	3. Communication interf
	4 10	<ol> <li>4. Timer support</li> <li>5. Support full-screen</li> </ol>
	1110	1
	Mainstream module	
	P10 32×16 T12	
	Module cascade direction Color channel Data Polarity OE Polarity Chip type	
	Smart scan From right to left 🔹 R - G - B 🔹 Negative 🔹 High 🔹 General chip 💌	
	Shift dock	
	Scan mode import/export	

#### Image6

User can use smart scan configuration to set the scan mode if don't know which one is suitable for the module.

#### Smart scan setting

Click "smart scan configuration"--"smart setup wizard-1"to set the parameters.

Screen type: single color dual color and full color

Module width: user can input the module width according to the LED screen total pixel



for one line

Chip type: default is general chip ,also can specified the LED screen chip.

Row decode mode: including no decode, 138 decode,74HC595 decode and RT5958

decode, usually select138 decode.

Empty points: when use empty points ,can input the empty points numbers.

Module cascade direction:receiving card connection direction :from right to left ,from left to right,from top to bottom,from bottom to top.

Screen type	Module width	Chip type	Row decode mo			
Full color 🔹	16 🌲	General chip	- 138 decode			
Empty points 0 🚔						
lodule cascade direc	tion					
From right to le	ft	From left to right				
🔘 From top to bo	ttom	C From bottom to top				
Module width mu abnormal!	ust be the actual widt	h of the module, other	rwise screen will display			
Module width mu abnormal!	ust be the actual widt	h of the module, other	rwise screen will display			

Image7

#### Smart setup wizard-2

In the "smart setup wizard-2" to set the parameters as shown in the picture.

Status automa display state to	tically changes one time every 4 seconds, observe the LED module in o choose right answer
🔿 1 💿 2	
Display status	State 1 display black, state 2 display white 🔹 👻

Click "1", check the LED screen display black or white, then click the "2", then check the screen is black or white, if user want to check the screen variation, can select the "status automatically changes one time every 4 seconds, observe the LED module in display state to choose right answer " then click "next step".

#### Smart setup wizard-3

Click"1", check the LED screen display black or white ,then click the "2", then check the screen is black or white, if user want to check the screen variation ,can select the "status automatically changes one time every 4 seconds ,observe the LED module in display state to choose right answer " then click "next step".

Status au display sta	omatically changes one time every 4 seconds, observe the LED module in te to choose right answer
© 1 💿	2
Display statu:	State 1 to 2 low brightness



#### Smart setup wizard-4

Click"1", check the LED screen display black or white , then click the"2", then check the screen is black or white, if user want to check the screen variation , can select the "status automatically changes one time every 4 seconds , observe the LED module in display state to choose right answer "then click "next step".

Note: when the user uses the monochrome screen, the normal state is: 1 displays

#### red, 2 display green ,3 display blue ,4 display black.



en changes	
Status automatical display state to cho	y changes one time every 4 seconds, observe the LED module in lose right answer
Display status 1	Red
Display status 2	Green 💌
Display status 3	Blue
Display status 4	Black
	en changes Status automaticall display state to cho Display status 1 Display status 2 Display status 3 Display status 4

## Smart setup wizard-5

Set the lights up number of rows ,then click the "next step" .

creen changes					
icreen lights up th	e number	of rows			
	16 🚔				
		1	_		
	and the second se			- I	1

Image11

## Smart setup wizard-6

Set the lights up number of rows ,then click the "next step" .



creen cr	langes				
Screen lig	the nu	umber of	rows		
	1	4			
	12.51				
		-10		74-1	
			[	Consel	

Image12

## Smart setup wizard-7

Set the module scan mode as shown in picture ,then make coordinates as shown in picture ,,click

"reset" then will prompt the Picture ..then save the scan mode .

																			Ba	ick		Resel
1	1	2	3	4	5	6	7 8	9	10	11	12	13 1	4	15 16	l,							
	1	2	3	4	5	6	7		10	1	12	B	14	15 16								
4	17	18	19	20	21	22	23 (2	4 25	26	27	28	29 (	30	31 32								
(3	33	34	35	36	37	38	39	0 41	42	43	44	45	46	47 48						05	D	
4	19	50	51	52	Pro	mp														×		
6	5	66	67	68					-		-											
3	Sec	-	1.00	1.000																		
	1	82	83	84		-																
00	91 97	82 98	63 99	84 100		6		<	Sma	art se	ettin	g> I	nas	been	comp	eted, su	ich as th	ne disp	olay ca	in		
000	91 97 13	82 98 114	83 99 115	84 100 116				< not (	Sma disp	art so lay p	ettin prop	g>   berly	nas , pl	been o lease ro	comp e-run	eted, su the <sn< td=""><td>ich as th nart sett</td><td>ne disµ ting≻.</td><td>olay ca</td><td>in</td><td></td><td></td></sn<>	ich as th nart sett	ne disµ ting≻.	olay ca	in		
	81 97 13 29	82 99 114 130	83 99 115 131	84 100 116 132				≺ not (	Sm <i>i</i> disp	art so lay p	ettin prop	g> l berly	nas , pl	been o lease re	comp e-run	eted, su the «Sn	ich as th nart set	ne disµ ting≻.	olay ca	in		
	91 97 13 29 45	82 98 114 130 146	83 99 115 131 147	84 100 116 132 146				< not (	Sm/ disp	art so day p	ettin prop	g>   perly	nas , pl	been ( lease ri	comp e-run	eted, si the <sn< td=""><td>ch as th nart set</td><td>ne disp ting&gt;.</td><td>olay ca</td><td>in</td><td>1</td><td></td></sn<>	ch as th nart set	ne disp ting>.	olay ca	in	1	
	91 97 13 29 45 61	82 98 114 130 146 162	83 99 115 131 147 163	84 100 116 132 146				< not i	Sma disp	art so lay p	ettin prop	g> l perly	nas ; pl	been ( lease ri	comp e-run	eted, si the <sn< td=""><td>ich as th nart set</td><td>ne disp ting&gt;.</td><td>olay ca 确定</td><td>in È</td><td></td><td></td></sn<>	ich as th nart set	ne disp ting>.	olay ca 确定	in È		
	13 13 29 45 61 77	82 98 114 130 146 162 178	83 99 115 131 147 163 179	84 100 116 132 146 164				< not i	Sma	art se lay p	ettin prop	g> l perly	nas ; pl	been d lease ri	comp e-run	eted, su the <sn< td=""><td>ich as th</td><td>ne disp ting&gt;.</td><td>olay ca 确知</td><td>in È</td><td></td><td></td></sn<>	ich as th	ne disp ting>.	olay ca 确知	in È		
5 8 7 9 11 11 11 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 11	91) ( 97) ( 13) ( 29) ( 45) ( 61) ( 93) ( 93) (	82 98 114 130 146 162 178 194	83 99 115 131 147 163 179 195	84 100 116 132 145 164 180	197	198	99 2	< not (	Sma disp	art so lay p	ettin prop	g>   perly 205 2	nas , pl	been d lease ro 207 208	comp e-run	eted, si the <sn< td=""><td>ich as th</td><td>ne disp ting&gt;.</td><td>olay ca ඔව</td><td>Ē</td><td></td><td></td></sn<>	ich as th	ne disp ting>.	olay ca ඔව	Ē		
i 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91) ( 97) ( 13) ( 29) ( 45) ( 61) ( 93) ( 93) ( 93) ( 93) (	82 98 114 130 146 162 178 194 210	83 99 115 131 147 163 179 195 211	84 100 116 132 146 164 180 196 212	197 213	198	99 2	< not ( 0 20 6 21	Smi disp	art so lay p 203	ettin prop 204	g >   perly 205 2 221 2	nas , pl	been ( lease ri 207 208 223 224	comp e-run	eted, si the <sn< td=""><td>ch as th</td><td>ne disp ting&gt;.</td><td>olay ca 确定</td><td>È</td><td></td><td></td></sn<>	ch as th	ne disp ting>.	olay ca 确定	È		
i 8 9 11 11 12 12 12 13 13 15 22	31 ( 37 ( 13 ( 29 ( 45 ( 61 ( 77 ( 93 ( 93 ( 93 ( 25 (	82 98 114 130 146 162 178 194 210 226	8 99 115 131 149 163 179 195 211 27	84 100 11 132 148 164 180 196 212 228	197 213 229	198	99 2	< not ( 6 21) 2 23	Sma disp 200 200	203 203 219	204 220 236	g>   perly 205 2 221 2	nas ; pl	been ( lease ri 207 208 223 224 239 240	comp e-run	eted, si	ich as th	ne disp ting>.	olay ca 确定	in E		

Image13



Ser a

At last in the scan configuration interface will display the recommend scan mode as shown in picture

	Save receiver card parameter information successfully!	
creen Set		X
en list	Screen parameters Scan Configurations Viring Diagram NET settings	Main Performance
Screen-1	© Quidk © 1/32 ● 1/16 ● 1/8 ● 1/4 ● 1/2 ● Static ● Other Single/Double color -	BX-6K1
	14	<ol> <li>Maximum pixels(dots): Single color 32K(32768)</li> </ol>
	1.7	Iwo color 32K(32768)
	1.8	2. Display mode:
	1.9	Single color 512*16,512*32
	1.10	512*84
	1.11	512*16, 512*32
	1.12	512*64 Three color
	1.13	512*16, 512*32
	1.14	3. Communication interface: R
	1.19 SM161888 module dedicated	4. Timer support 5. Support full-screen test
	Mainstream module	
	13 14 15 16	
	9 10 11 12 -	
	Module cascade direction Color channel Data Polarity OE Polarity Chip type	
	Smart scan From right to left • R - G - B • Positive • Low • General chip •	
	Scan mode import/export        Scan mode import/export     3         Save to U disk     Set scan	
		Close

## Load font and image file

The controller has built-in 8 \* 16 English font and 16 \* 16 simplified Chinese font. If you need other sizes and traditional font, you can load them by yourself. The method is as follows: click "Settings" - > "font maintenance" in the menu bar to open the dialog box:

ont configur	ation	Check	the	Font			
Font config	uration	n					
Font File							200
						2	
Font Type	FontL		For	it		Font	Name
E 🗸	1.Fre	encl +	Ar	ial	٠	0	4.9
Encoding	Fo	nt wid	th	Font	hei	zht	
GB2312	-	3	A V	16			
					F	Downl	oad
						100-2022	19224

Select the required font or map library file, set the corresponding parameters, and click the "load" button. Font type: E for English font, O for Chinese font, T for graph, K for other font (such as Korean).Encoding: GB2312 is simplified Chinese font, GBK is traditional Chinese font, and Unicode is character encoding format.

Please make sure the font width and height are selected correctly before loading the font library file. Generally, the width of the English font library is half of the height. If the irregular font library is loaded, you need to set the corresponding font width. For example, the font width of 12 \* 16 point library is 12. At this time, you need to pay special attention to the setting of screen parameters. Please read the section displaying irregular fonts. If the library type is O and the library name is 0, then the library file name is 0000, and so on.

Note: the actual font size displayed is determined by the corresponding font library file used

## Send static program

Click the program button in the toolbar to add a program, and click the word bank button to add a word bank area under the current program.

1. Add font area





Click the "text" button below to create a new graphic information file: edit the required graphic information in the pop-up edit box.



Sing, mult	ti-line	Automs	atic NewLine	Line spacing
Multilin	e di ▼	Autom	atic li1 ▼	0
) open	text u	p down	× delete	
C:\Progre	am File	(x86)\0	BON\LedshowZ	IK\Documents\文本1_1.txt
	om File	(x86)\0	BON\LedshowZ	IK\Documents\文本1_2.txt



Image17

## 2. Properties of font area

All the font areas have the same properties as shown in the figure below.

Huno Pental X	Sing multi-line Automatic Meeline Line spacing Multiline di • Automatic lin • 0 0	Display sethod
0 🕂	apen text up down delete	Norw 1+ft -
D () Vidth 32 ()	E 'Vregram Tiles' (a16)'00F000'LadobooZE'Documents'文本1」tert EFELTeneral Tales meteo30011010LadobooZE'Documenta's 2001 Exten	Ban speed [10] Hold time (0.5c)
Height 🕂		10 0

#### Image18

- Program name : edit program name
- Starting point X: the position of the top left corner vertex relative to the left boundary

of the LED display screen, in pixels.

• Starting point y: the position of the top left corner vertex relative to the upper

boundary of the LED display screen, in pixels.

- Width: the width of the font area, in pixels.
- Height: the height of the font area, in pixels.
- Single line and multi line: text can be displayed in single line and multi line.

#### onbon 仰邦科技

- Line feed mode: manual line feed or automatic line feed is optional.
- Line spacing: the spacing of each line can be set.
- Display special effects: the special effects are displayed randomly by default, and the specified special effects will be displayed after selection. Stunt methods include: fast play, static display, up continuous move, down continuous move, left continuous move, right continuous move and other special effects.
- Operation speed: the operation speed of stunt entering the site is level 1-24, of which level 1 is the fastest.

## Finish edit programs

After the above steps, one program has been completed. If users need more than one program , please repeat the above steps. After making the program , please don't forget to save it. Click "save program file as" under menu file.

## Play programs

To play the current program file, click the send button, and the play window and display screen in the preview area will start playing the program at the same time. To play different program files, click the open button to open the program file and then play it.

## Sent dynamic programs

Click the "dynamic" button in the toolbar to add a dynamic area. Its content editing steps are the same as that of static programs. The dynamic area can be selected into three operation states: automatic cycle display, staying on the last page after completion, and not updated and deleted after timeout. Timeout not updated deletion means that if the controller does not receive the information to update the area within the time set by the user, it means the communication link is interrupted. At this time, the controller deletes the outdated information of the area. Click the "send "button on the toolbar to send all the dynamic area data to the controller.



File Edit	Setup	Advanced se	tting Send	d mode	Langua	ge Help	×	Þ3	[ 4	œ.	63	×.	0
Plus screen	New Op	oen SaveAs	Program	Fonts	Dynamic	Dynamic-2	Delete	to left	to right	to up	to down	Bright	Times
	en-1 Program-1 Fonts1												

## **Communication setting**

BX-6K series control card supports network communication, serial communication, GPRS wireless communication and 4G DTU wireless communication.

## Serial communication

Click "Settings" > "setting screen parameters" > "setting screen parameters" in the menu bar, and enter the "setting screen parameters" interface after entering the password "168". After entering the screen parameter setting interface, there are the following steps to set the screen parameters:

**Step 1:** select the correct controller type under "control component" and "controller model". Generally, when the controller is connected correctly, the software can automatically identify the controller type. In this case, it is not necessary to manually select the controller type.

**Step 2:** select the correct communication mode and configure the communication interface parameters correctly. Select "serial communication" for "communication mode".

**Step 3:** set the screen width and height, and click "load screen parameters" to load screen parameters.

- Baud rate: the transmission rate of data to the display screen.
- Screen width: the length of the display screen.
- Screen height: the height of the display screen.
- Screen type: monochrome, bicolor and tricolor can be selected according to the screen type.

#### onbon 仰邦科技

- Lattice: when the display screen is of dual primary colors, type I (R + G) means left red and right green, and type II (G + R) means left green and right red.
- Data polarity: it can be divided into negative polarity and positive polarity.
- OE polarity: it can be divided into high efficiency and low efficiency.

In step 3, when setting the scan configuration, you can click the "scan configuration" tab, which provides the configuration files of most popular displays on the market, or select "intelligent scan configuration" to configure.

#### Image19

🐼 Screen Set		×
Screen list Screen parameter Screen-1 ID 1 Serial Porta Width 32 Datd Polarit Display type T	rs Scan Configurations Wiring Diagram Build Address Controller Controller BX-6K1 BX-6K1 Baudrate Storage Volume Baudrate Storage Volume ST600 Keight Screen Color Fixels Single Fixed Screen Color Screen Color Single Fixed Screen Color Fixels Screen Color Fixels Fixed Screen Color Fixed	Main Performance BX-6K3-YY 1. Maximun pixels (dots): Single color 128K(131072) Two color 96K(98304) 2. Display mode: Single color 2048*16, 2048*64 1024*128 Two color 2048*16, 2048*32 1536*464, 768*128, 3. Communication interface:Ri 4. Timer support 5. Support full-screen test
		Close

## **GPRS** Communication

GPRS wireless communication mode can be set by SMS, which is easy to operate. First, the control card is connected to the GPRS module, and the SIM card is inserted into the SIM card slot of the control card. (6K1 & G series control card does not need external GPRS module).Click "Settings" > "setting screen parameters" > "setting screen parameters" in the menu bar, and enter the "setting screen parameters" interface after entering the password "168".After entering the screen parameter setting interface, there are the following steps to set the screen parameters: **Step 1**: select the correct controller type under "control component" and "controller model".

#### onbon 仰邦科技

Generally, when the controller is connected correctly, the software can automatically identify the controller type. In this case, it is not necessary to manually select the controller type.

Step 2: select the correct communication mode and configure the communication interface

parameters correctly. Select "GPRS wireless communication" for "communication mode".

creen list	Screen parameters Scan Configurations Viring Diagram GPRS sattings	Hain Performance
	ScreenName Build Address Screen-1 - 2	1. Maximum pixels(dots): Single color 128%(131072) Two color 96%(98304)
1 4	ID Controller 1 • BI-6X1 • Oprs cossumi •	Single color 2048+15,2048+64 10244120 Teo color
	Serial Forta Baudrate Storage Volume	2048416,2048432 1538464,7884128 3. Communication insterface: 4. Timer support 5. Support
	Vidth Height Screen Color Pixels 32 + Single - Dati Folarity OE Folarity Scan Frequency Box Order	a nakkor rass seraan ras
	Display type Data Flow Line blanking tiLanguage	4
	Boad Back Vrite Farameter;	
		Close



## Step 3: configure SMS

Use your own mobile phone to edit the SMS and send it to the module mobile card.SMS format of mobile phone card (a55a \* 1 \* 112.65.245.174 \* 6058 3 \* cmnet 4 \* gprs0000001).SMS format of Unicom mobile card (a55a#1 \* 112.65.245.174 \* 6058#3 \* uninet#4 \* gprs0000001)After sending, you will receive a reply message: IP OK # APN OK # ID OK #, that is, the setting is successful

**Step 4:** set the screen width and screen height, and click "load screen parameters" to load the screen parameters.

**Step 5**: click the "Settings" menu, select the "server settings" option, enter the "server configuration" interface, enter the "server port" number (the server port number here is the mapping port number made by the router), click "start server", wait for the red image mark "" in front of the screen to turn into blue "" to indicate that the server is online, and then the server is set ted



Screen parameters	Scan Configurations	Wiring Diagram	GPRS settings
GPRS Style BX-GPRS ▼	SIM card number	GPRS Number	
Packet Size	PzcKet interval		
500	500 🚖		

## 4G DTU Communication

4G DTU wireless communication mode supports SMS configuration. First, the control card is connected to the 4G DTU module, and the 4G SIM card is inserted into the SIM card slot of the control card.

After entering the screen parameter setting interface, there are the following steps to set the screen parameter:

**Step 1**: select the correct controller type under "control component" and "controller model". Generally, when the controller is connected correctly, the software can automatically identify the controller type. In this case, it is not necessary to manually select the controller type.

**Step 2:** select the correct communication mode and configure the communication interface parameters correctly. Select "4g-dtu" for "communication mode".

Screen list	Screen parameters Scan Configurations Wiring Diagram 4G-DTV 3	Main Performance
Screen-1	ScreenName Build Address Screen-1 ID Controller Communication Mode 1    BX-6K1    Communication Mode 4G-DTU commu Serial Porta Baudrate Storage Volume	<ul> <li>BX-6K3-YY</li> <li>Maximun pixels (dots):</li> <li>Single color 128K (131072)</li> <li>Two color 98K (98304)</li> <li>Display mode:</li> <li>Single color</li> <li>2048*16, 2048*64</li> <li>1024*128</li> <li>Two color</li> <li>2048*16, 2048*32</li> <li>1538*64, 766*128,</li> <li>Communication interface: K<sup>6</sup></li> </ul>
	Width     Height     Screen Color     Pixels       32     32     Single     Image: Science of the science of	4.Timer support 5.Support full-screen test
	Read_Back Write Parameters	

## Step 3: configure SMS

Use your own mobile phone to edit the SMS and send it to the module mobile card.

SMS format of China mobile phone card

(A55A#1\*149.129.145.83\*3801#3\*CMNET#4\*BX-4G000001#5\*0)

SMS format of China Unicom mobile phone card

(A55A#1\*149.129.145.83\*3801#3\*UNINET#4\*BX-4G000001#5\*0)

After sending, you will receive a reply message: IP OK APN OK ID OK , that means the

setting is successful

Step 4: set the screen width and screen height, and click "load screen parameters" to load the

screen parameters.

**Step 5:** click the "Settings" menu, select the "server settings" option, enter the "server configuration" interface, enter the "server port" number (the server port number here is the mapping port number made by the router), click "start the server", wait for the red image mark "" in front of the screen to turn into blue "" to indicate that the server is online, and then the server settings are completed

Server IP		Port	
192.168.9.120	Local IP	8135	-
		1-1001	_

#### .Image23

# **Controller firmware maintaince**

To ensure that the firmware version of the controller matches the ledshowzk software, you can first check the controller program maintenance. First, select "controller firmware maintenance" under "Settings" in the menu bar, and enter password "168" before entering the interface, as shown in the following image. First click "check" to find out the connected controller, then click the image

Check the Firmwar	.e	eraciony secting
Firmware Name	Version	Modified Time
		Check
Firmware Update- Firmwara Fila		
III MALE IIIE		
Controller Type	Version	Modified Time
		Setup
		ų
Select the right save the font lib	USB device to grary	ų*

Image24

## **Restore factory settings**

In the "firmware settings" interface, select the "restore factory settings" tab, as shown in the following image. First click "restore factory settings" to restore the firmware program of the control card to the factory state.



irmware Maintrn	ance Restore	Restore the Factory setting	
Firmware Name	Version	Modified Time	
	Res	tore the Factory setting	

Image25

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