

LED Controller

Specification



Before you use the LED controller, please read this file first and save it for future

We will struggle and serve for the booming development of LED industry!

BX-6M3

Statement

Any companies or privates cannot copy, transcribe or translate part or whole content of this file without our written permission. And cannot use it on any business or benefit filed with any forms.

The specifications and information which are mentioned on the file is for reference only, if there' s update, we will not inform you. This file is only for guidance, and all information will not be for any promises.

CATALOG

Brief Introduction.....	2
About Software.....	2
Characteristics.....	2
Guiding.....	3
Safety note.....	3
Function instruction.....	4
Control size.....	4
Smart search IP.....	4
Communication mode is flexible.....	4
Support Chinese and English broadcasting.....	5
Multi area arbitrary collocation.....	5
Cluster release program.....	5
Support 3G server mode.....	5
Timing sending program.....	5
Time switch.....	6
Test button.....	6
Automatic Correcting Time.....	6
Colorful border.....	6
Sensor.....	6
Multilingual.....	7
Technical specifications.....	7
Dimension diagram.....	8
Interface diagram.....	9

Brief Introduction

Thanks for ordering LED control card. The design of the control card is according to the international and industrial standard, but if the operations are incorrect, it will probably bring you personal injury and financial harm. As to avoid these and win more from your equipment, please obey the specifications of this file.

About Software

Cannot do any modification, decompilation, disassembling, decoding or reverse engineering on our software, it's illegal.

Characteristics

- ◆ Single-core architecture, dual-core performance.
- ◆ Break through the bottleneck technology of this industry. Completely solve the recurring illness of the similar products: Text seriously wrong column when shift to left, screen jitter when move to lift the brightness is seriously reduced when shift lift in long screen, black screen while communication .
- ◆ Support tri-color display, support smart scan. Easy to adapt to a variety of special modules and full-color modules;
- ◆ Added "Smart search IP / automatically search device " function
- ◆ Match with BX-YY support Chinese/English Broadcast function, meet with all voice broadcast project requirements. Real-time preview the display effects, What You See Is What You Get on the display;
- ◆ More excellent picture moving speed and smooth performance technology
- ◆ On-board brightness / temperature / temperature and humidity sensor interface seat, On-board infrared remote control head socket.
- ◆ Rich interface , more functional, more sophisticated technology, more stable performance.

Guiding

Safety note

- ◆ Input voltage is 5V, voltage range is from 4.5V-6.5V, please make sure the quality of the power supply of BX-6M series.
- ◆ Please make sure that all the power supply cables are plugged off when you want to connect or plug off any signal or controlling cables.
- ◆ Please make sure that all the power supply cables and signal cables are plugged off when you need to put in or take off the hardware equipment.
- ◆ Please make sure the environment is clean, dry and ventilated when you use this product, also, do not put this product to a high temperature and wet environment.
- ◆ This product is electronic products, please keep away from fire, water source and flammable&combustible products.
- ◆ There's high pressure components in this products, please do not open the box and repair it by yourself.

Function instruction

BX-6M series have all the functions and features of BX-5M series products. It has solved the bottleneck technology of this industry. Completely solve the recurring illness of the similar products: Text seriously wrong column when shift to left, screen jitter when move to lift the brightness is seriously reduced when shift lift in long screen, black screen while communication. A best choice for single screen or cluster display system. Meet all kinds of complex requirements.

Based on powerful hardware platform, BX-6M series support super large LED display, it is widely used in various large LED display and LED display system cluster. It is onboard one 100M ethernet interface, using MAC binding mechanism, no need IP settings, the system can automatically identify IP, automatic network connection. Network PC communication supports [direct connection, Ethernet connection, and server mode connection.

The BX-6M series of carrying index and display effect have been greatly improved, the function is more abundant and more complete. The product supports high refresh rate, high gradation, and supports animation and video clips. It has super smooth subtitles, variety font style, colorful border stunt.

With its excellent quality and performance, the product is mainly oriented to the network application, and supports the LAN and the Internet. It is a very good choice to meet the needs of a variety of complex applications.

Control size

The control area of BX-6M3, for single color \leq 128K: 3200*32, 2048*64, 1344*96, 1024*128, double color 96K: 3072*32, 1536*64, 1024*96, 768*128, 64K three color: 3200*16, 2048*32, 1024*64, 512*128, with a maximum width of 3200 Pixels, the control size of flexible. Abundant display function.

Smart search IP

The product support automatic intelligent search for function, users do not need to manually enter the IP address, it is greatly improve user efficiency, reduce the IP address management and recording time. The product is simpler and easier to use, and the user experience is better.

Communication mode is flexible

It is onboard 4 nos of T8 and 8 nos of T12 interface, supports network communication and ONBON server -3G communication, and onboard USB interface can download playback files with U disk.

Support Chinese and English broadcasting

6M series products ,matched with the BX-YY module can support Chinese speech broadcast and English character broadcasting in any area to meet the needs of the project . And it also support English words and statements on the basis of customer needs. The content of the broadcast voice of the product can be consistent with the content of the display. It can also be inconsistent. It can be selected flexibly according to the customer's demand. The product provides 6 voice styles, 11 voice speeds, 11 levels of volume, and the number of playback times (select the 16 level to support an unlimited number of times).

Multi area arbitrary collocation

Support multi areas play, Image, animation, subtitles, time, calendar, form areas collocation, User can add a variety of text, images, animation, subtitles, time ,lunar and form, to show images, text, animation, time, calendar, rolling forms on the screen

Cluster release program

It can be widely used in various intel screen and LED advertising machine cluster display system. Through stable and efficient network control mode, users can achieve seamless docking of multi location LED screens, and facilitate users to remote centralized management and maintenance of all display screens distributed in different areas, so as to achieve cluster publishing programs.

Support 3G server mode

Through the use of B/S architecture, adopted centralized control and distributed management mode are. After establishing the LED display server, users can login to the ONBON server through the browser (B/S mode), and centrally manage and distribute all the LED screens .

Timing sending program

Supporti send the program regularly, users only need to set the display time of the program in the software, the program will send the program exactly according to the set ted time,.

Time switch

The software has timer switch function . After setting the boot and shutdown time, the computer will automatically turn on and turn off , it is greatly improve the service life and reliability of the display. When the user is inconvenient to operate on the side of the computer, the timing switchgear can better realize the unattended function.

Test button

With the increases of use time , the quality of the screen will also change. Therefore, the large LED screen needs regular display quality detection and correction. The product has the function of self testing screen, the Users just need to flow simple operation steps, It can complete the brightness of the screen, , color detection, enabling customers to keep tracking of each LED the life of the screen.

Automatic Correcting Time

The system will automatically correction time according to the real-time time, just like the mobile phone and the computer, so that there is no need to manually calibrate the time and place the places that need not be specially installed to the LED display, it can automatically correction the time, so as to ensure the uniformity of the time of all display terminals at any time.

Colorful border

The software has many types of colorful border, which provides a rich and colorful eye-catching border. A variety of colorful border to can meet end users demand and use on different applications, greatly improving the broadcast effect of the program.

Sensor

It is onboard temperature, humidity, brightness sensor interface, it can accurately measure and display the temperature, humidity, brightness value. Provide accurate and accurate data reference users where the temperature, humidity or noise need to be strictly controlled, so as to avoid unnecessary losses caused by improper temperature, humidity or noise control.

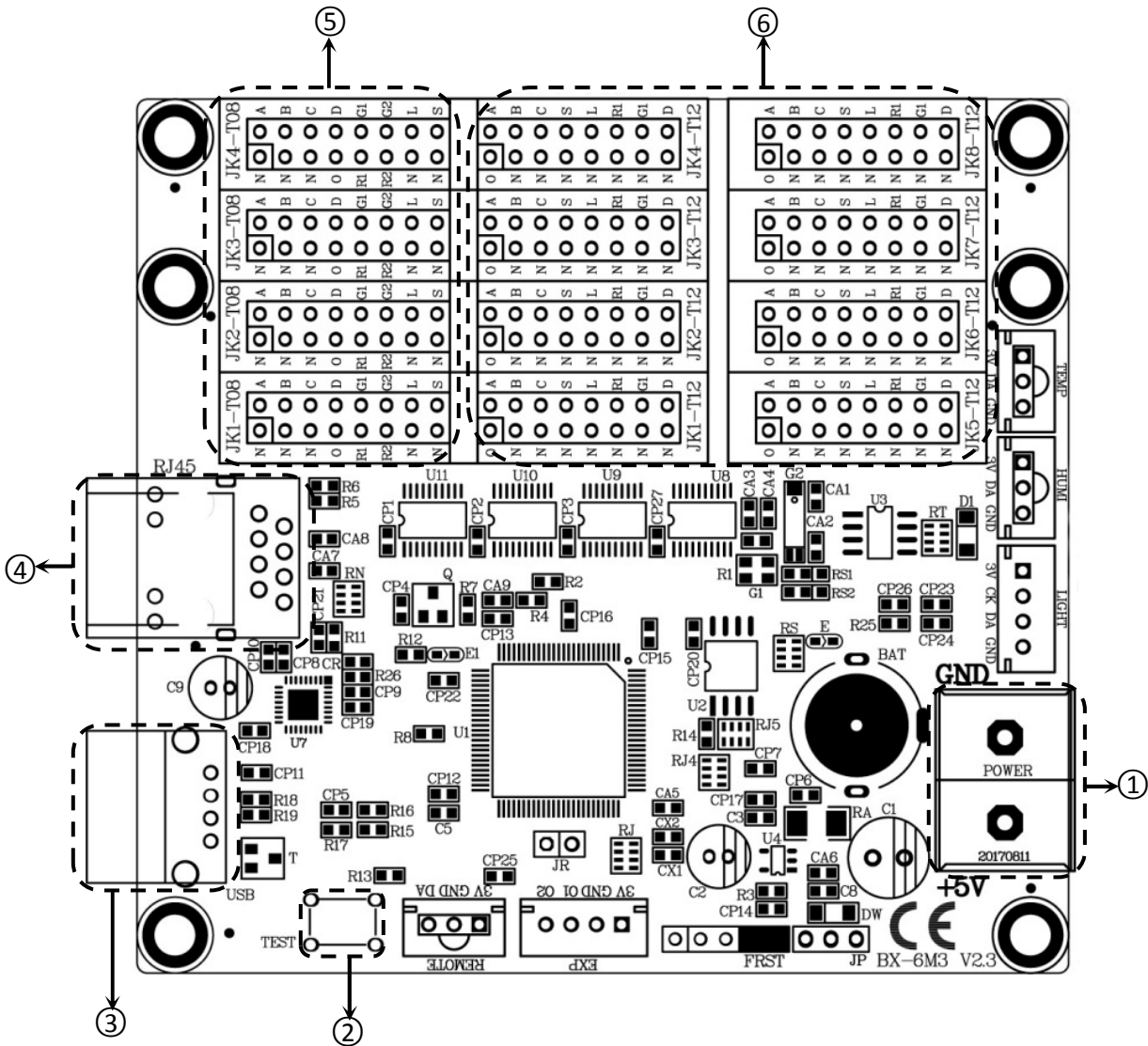
Multilingual

The system includes many kinds of font, such as multiple simplified Chinese text and traditional font, the software supports over 20 languages, such as English, Korean, Japanese, Greek, French and so on. The product is suitable for users from all over the world.

Technical specifications

Technical specifications	
Control size	Single color 128K Pixels: 3200*32、2048*64、1344*96、1024*128
	Dual color 96K Pixels: 3072*32、1536*64、1024*96、768*128
	Tril color 64K Pixels: 3200*16、2048*32、1024*64、512*128
Storage capacity	2MByte
Screen types	All kinds of small single, double and tri colors LED screen
Software function	Screens cluster management/multi-program/multi-areas display/multi-languages
Program type	Normal/global/real-time/shared/self-adapted program
Program quantity	Support 256 programs,32 areas for each program
Area type	Picture and text/single line text/animation/lunar calendar/digital clock/analogue clock/timer/temperature/temperature & humidity
Frame mode	Most advanced colorful and magic graphics frame
Time mode	Analogue clock/digital clock/timing and counting-down timer (support multi-groups)
Communication mode	Standard configuration 100M Ethernet and USB port
Interface	4 nos T8 and 8 nos of T12
Sensors supported	Support temperature and temp&humidity sensor
Remote control	Remote control program/lock screen/brightness adjustment/power on/off /screen test
Bright regulation	16 grades brightness, manual and auto-timing adjustment
Power on/off mode	Auto-timing powered on/off /software power on & off/remote power on&off
Voltage	5V (3.5V~6V)
Maximum power	≤2W
Temperature	-40℃~80℃
Secondary development	Provide the DLL and corresponding demos
Software	Ledshowtw
User manuel	Ledshow TW user manual

Interface diagram



Interface description		
1	Power	5V Power interface, DC voltage input, rated voltage 5V, support 3.5V~6V
2	TEST	Test button
3	USB	USB interface, Support usb disk upload program
4	100M	Ethernet interface, Fast Ethernet, connected to the computer
5	T8 Interface	T8 Interfce (JK1、JK2、JK3、JK4)
6	T12 Interface	T12 Interfce (JK1、JK2、JK3、JK4、JK5、JK6、JK7、JK8)

Contact Us

Shanghai ONBON Technology Co.,ltd (Headquarters)

Address: 7 Floor, Tower 88, 1199#, North Qinzhou Road, Xuhui District, Shanghai City, China

Tel Phone: 086-21-64955136

Fax: 086-21-64955136

Website: www.onbonbx.com

ONBON (Jiangsu) Optoelectronic Industrial Co.,LTD

Address: 1299#, Fuchun Jiang Road, Kunshan City, Jiangsu Province, China

Sales Contacts

Tel: 0086-15921814956 0086-15800379719

Email: onbon@onbonbx.com

Second Development

Tel: 0512-66589212

Email: dev@onbonbx.com

iLEDCloud

Website: <http://www.iledcloud.com/>



Public Wechat



ONBON APP