



# **BX-Y08 Specification**

**Version : V1.2    Release date : 2020.05.09**

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## **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.

**Product photos**



## **Characteristics**

- On-board 8\*HUB75 Interface , one card to one screen,suitable for all kinds of small size LED full color screen
- High performance CPU, hardware decoding, HD video playback smoothly .
- On-board 100M Ethernet port,audio port, Support USB port Wi-Fi module and will support 4G router soon .
- Support cluster control, especially suitable for large-scale urban outdoor advertising screen large-scale deployment management
- Abundant 3D stunt and Flash subtitle
- Support U disk display directly,also support importing display.
- Support Groups cluster management
- Support firmware update online.
- Support database,Very suitable for high-speed rail, hospitals, banks and other occasions of information release.
- Sensor:will support temperature sensor/ temperature&humidity sensor /noise sensor /air quality
- sensor /wind speed &wind direction sensor /brightness sensor in the near future
- Adopter the second YQ protocol,and it is more convenient for custom and SDK projects.

## Guiding

### Safety guide

- Input voltage is 5V, voltage range is from 3.3V-6V, please make sure the quality of the power supply of BX-Y 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.
- Turn off the power supply immediately when you find smoking, peculiar smell or something unusual.And contact with us soon.

## **Function**

### **Control area**

BX-Y08 support 512× 128 ,Total 64K pixels, the maximum width ≤1024, the maximum height 256 .8 nos T75 on board.one screen match with one card,used for small size full color screen and cluster control.Widely used in Led posters and Led pole screens bus screens etc

### **Support high refresh**

BX-Y series of controller support high refresh(here refers to the receiving card for LED screen refresh,users scan)or mobile phone camera shooting picture from time to time, no distortion, no scanning line,the true nature and excellent results.

### **Multiple communication mode**

The controller is on board a 100M network interface, internal integrated 4G wireless module, WIFI module, also supports USB interface, external WIFI module. Built-in WIFI both as a hot spot (AP), but also as a terminal. Supports external 4G routers.

For the general network topology, users can use the network cable directly access the router or switch,and management PC communication.

For short-range wireless applications, the user can open the controller built-in WIFI, access to their own routers, to achieve online control management. Users can also open the controller's WIFI hot spots,access to their own PC controller, to achieve management control. For the controller hot spots, the user can set the password, the rights management.

### **WiFi wireless communication**

BX-Y08 controller is truly realized the wireless connection via Wi-Fi signal. users can save the cost by using the Wi-Fi signal .BX-Y08 support 100M Ethernet, easy to install and use. Wide applied range: Laptop worked within 100M. Desktop could work

by wireless router connecting with BX-Y08 wireless controller communication.

## **Multiple communication mode**

It has different type of control platform, including PC software LedshowYQ, iLEDCloud platform ,iLEDsys system. LedshowYQ is used on PC , it can support windows XP, win7, win10 and other mainstream operating system. The software provides a comprehensive, rich controller configuration,programming, program release function.iLEDCloud platform is a online multimedia information publishing platform, its core server pinned on the Alibaba cloud, providing excellent reliability and stability. Users only need the browser to use the platform, you can remotely edit program, preview the program, scheduled fixed-point playback. Users can log in via phone, pad and pc. iLEDsys system is a high-end customers from the deployment of cloud platform, the platform will run on the user's own computer

above, to achieve a more secure, stable and efficient management.

## **Lager storage capacity**

BX-Y08 provides high-capacity built-in flash memory, also supports external capacity expansion. It was built-in 4G flash memory, users can store 8 hours of high-definition video.it provide SD card slot,allowing users to insert large capacity SD card, to expand capacity

## **Abundant 3D stunt**

Support graphic text, subtitles, video, lunar calendar, dial, timing, temperature, humidity, announcements, weather forecasts areas.Text areas can be pictures or text, supporting a wealth of special effects, including curtain, pan, laser, mosaic, shutter and other common effects.Controller built-in GPU (graphics processing unit), support Abundant 3D stunt and FLASH subtitle.

## **Support database**

The controller will support database area, supports multi-page display, supports MYSQL, SQL server and other format database in the near future.

## **Support Android app**

BX-Y08 support Android APP LedshowYQ to add,edit and send program, very easy to operate.The APP support search screen, support multi language, support dynamic preview, video trans-coding function.Support gesture zoom in and out of partition function.

## **Flexible program release methods**

Users can use PC software LedshowYQ to add ,edit , preview, release. If network is not convenient,users can also use U-disk to import programs or plug-in and display .USB transmit distance is  $\leq 3M$ ,It can be reach 10 M with a extension line.

## **Online update firmware**

BX-Y series support remote upgrade firmware, users can use PC software LedshowYQ, iLEDCloud platform to upgrade the latest firmware,to enhance controller functionality, performance, solve bugs.The controller has built-in logging function, it can record various important events, and support remote consult, analyze and solve the fault.

## **Support remote control**

BX-Y08 supports remote control , very easy to switch programs by the remote .and also the screen brightness,volume,turn on and off screen ,testing etc.user experience comparable to TV remote control,especially suitable for indoor led screen management.

## **Timer switch screen**

The LedshowYQ software support timing switch screen. After setting the turn on and turn off time, the computer will turn on the machine on time and automatically. It can make use of manpower and material resources reasonably, and greatly improve the service life and reliability of the display screen. When the user is inconvenient to operate on the side of the computer, this function can better realize no one. The function of duty.

## Relay function

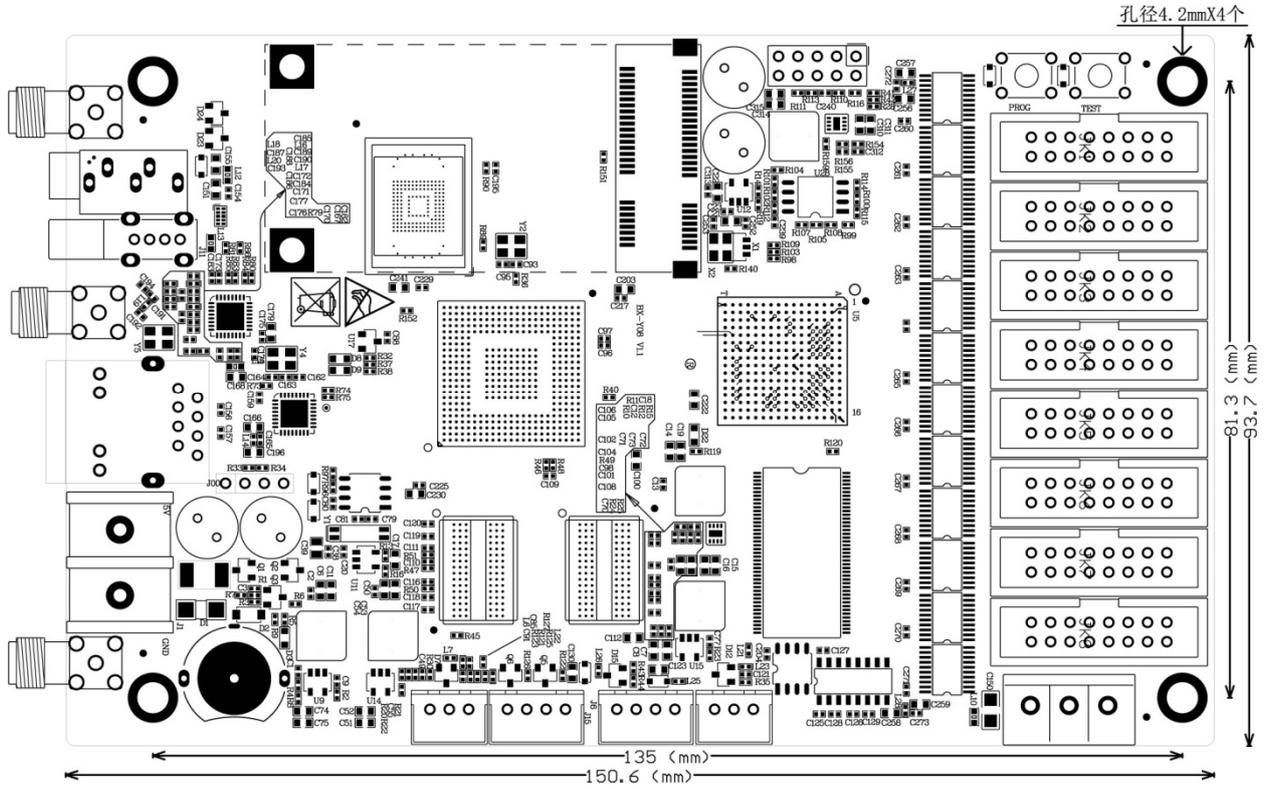
In the near future ,BX-Y series will add relay function ,Match with VMF multi-function card,the controller supports remote start, shutdown control , effectively reduce the screen power consumption, saving energy.

## Technical specifications

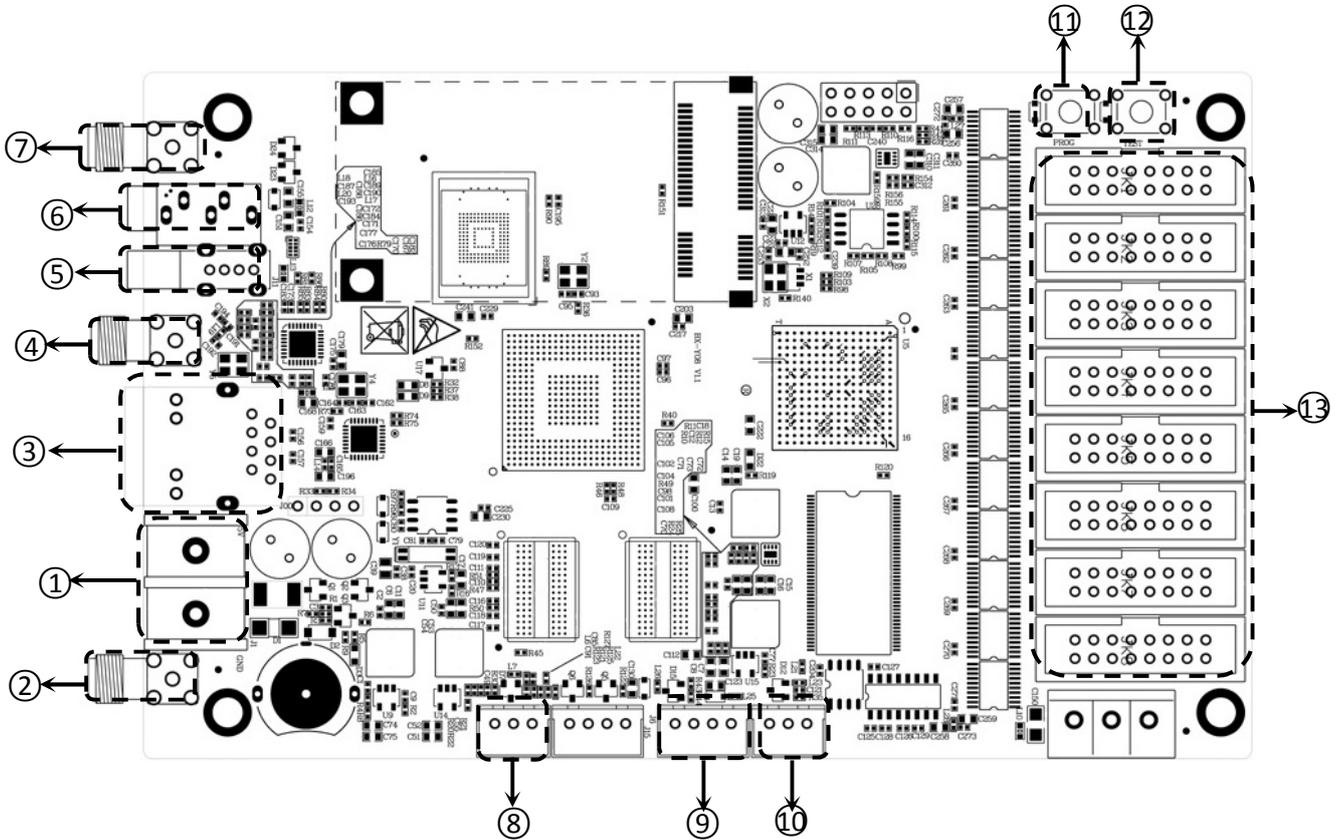
Screen index	
Parameter	Specification
Minimum size	64 × 64
Maximum size	512×256
Maximum width	1024
Maximum height	512

Product specification	
Input power supply	3.3V ~ 6V ; Please make sure the quality of power supply
Power Dissipation	≤10W
Temperature	-40°C ~ 80°C

# Dimension diagram



## Interface diagram



Interface		
1	DC	5V power supply port, DC input, 5V, support 3.3V~6V
2	Antenna	4G Antenna
3	100M	100M Ethernet connect with computer
4	Antenna	WIFI antenna
5	USB	USB interface, Support USB disk transmission program
6	AUDIO	Audio output
7	Antenna	GPS Antenna
8	IR	XH254-3P IR controller interface
9	LIGHT	Brightness sensor interface
10	HUMI/TEMP	Temperature sensor ,temperature&humidity sensor interface
11	PROG	Program switch button
12	TEST	Test button
13	75 PORTS	75PORTS (JK1、JK2、JK3、JK4、JK5、JK6、JK7、JK8)

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