

LED Controller

Specifications



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

BX-Y1A Video Player

Version: V1.4 Release date: 2021.4.2

CATALOG

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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.

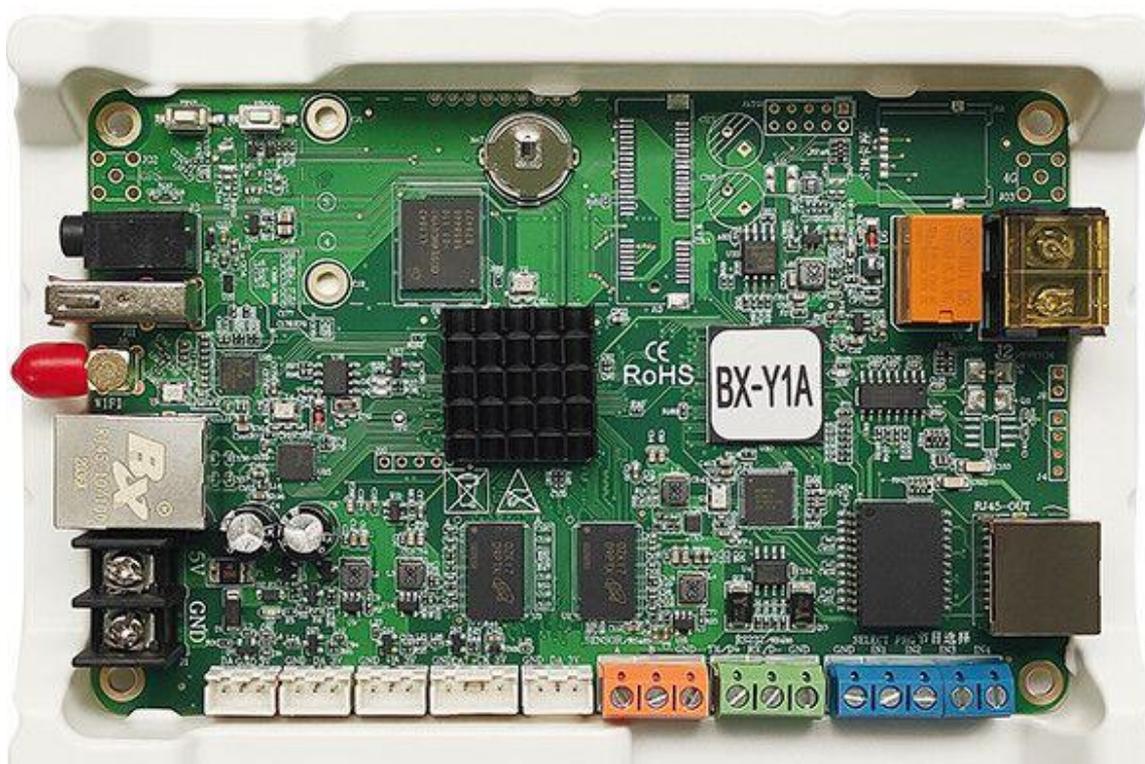
About Software

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

Safety Notes

- ◆ 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.

Product photos



Characteristics

- ◆ Applicable to smart light pole screen and traffic screen, the technical indicators are equivalent to BX-Y1 /Y2;
 - ◆ Compatible with the mainstream technology platform protocol of the security industry and the mainstream traffic signal equipment protocol in the market, free of secondary development.
 - ◆ Support Chinese and English voice broadcast function to meet the project voice requirements;
 - ◆ Standard equipped with various conventional sensor interfaces and RS485 environmental sensor interfaces, relay switches, and 4-bit program selection interfaces;
 - ◆ Standard 100M network port + RS485/RS232 serial port + RS485 environmental sensor interface + USB interface + WiFi interface;
 - ◆ Support U disk expansion to 256GB, U disk plug and play.
 - ◆ Support group control, can send programs in groups, especially suitable for large-scale deployment and management of large-scale urban outdoor advertising screens.
 - ◆ Support brightness sensor, temperature sensor, temperature and humidity sensor, noise sensor, air quality, wind speed, wind direction, atmospheric pressure, light and other environmental monitoring sensors and negative ion, liquid level, rain sensors.
 - ◆ Applicable to traffic guidance projects.
 - ◆ Support remote control, rich functions, you can order programs, adjust brightness, volume, screen test, etc.
 - ◆ Support mobile APP software operation, which is convenient for users to remotely and conveniently control program release and management.
 - ◆ Coated with UV three-proof glue, the national standard double 85 protection level, dustproof, moistureproof, antistatic, and salt spray proof;
 - ◆ -40°C ~ 80°C ambient temperature, 3.5V-5.5V wide voltage, 7*24 hours uninterrupted power, ≤0.3% failure rate.
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Function instruction

Control area

The Y1A controller has 1 gigabit output network port, the total pixel is 600K pixels: 1024×600, the maximum width is 8192 pixels, and the maximum height is 2048 pixels. The control area is flexible, the display function is rich, and the cost performance is very high.

Support high refresh

BX-Y series of controller support high refreshment (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.

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 an 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.

If you use LAN, you can choose our LedshowYQ software to manage. Or you can use our iLEDCloud platform, manage by web browser.

Large storage capacity

BX-Y1A, built in 4G storage for high resolution video. And support extending to 256GB.

Chinese/English voice broadcast

The control card can be connected to 5W speakers, without power amplifier, to realize the function of Chinese and English voice broadcast. The product is oriented to various LED display application systems of voice broadcast, and flexibly meets the user's voice broadcast needs.

Support Traffic Guiding Screen

Support general traffic protocol, for many kinds of traffic guiding screen projects.

GPS is Optional

GPS function is optional, you can use for vehicle-mounted screen. Controller connects with GPS antenna, log in iLEDCloud, then you can edit program remotely, preview, play program at the fixed time, fixed place, also you can lock the screen location in iLEDCloud satellite map page when controller obtain location signal.

Selecting Program by 4 IO

Selecting program by outside IO is to choose program by outside signal, as to display different programs by different signal.

ON/OFF Relay Port

Connect relay module with controller, as to control ON/OFF of air condition, fan, power supply of screen, etc.

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 Mobile App

Y series supports management by mobile APP. APP software is very easy to understand and operate. Users can edit, send data by mobile phone, pad. APP supports searching screen, supports multi languages, supports dynamic preview, video transcoding function. Supports zoom in and out manually.

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.

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 many sensors

The product can be connected to temperature, humidity, brightness sensors or RS485 interface to various environmental monitoring sensors through the on-board interface, which can accurately measure and display temperature, humidity, brightness, noise, PM2.5, PM10, wind direction, wind speed, atmospheric pressure, light , negative ions, liquid level, rainfall value. Provide accurate data reference for customers in places where temperature, humidity or noise need to be strictly controlled. Combined with the newly added environmental monitoring sensor interface, various environmental data can be visualized by using environmental detection sensor devices.

Support remote control

BX-Y1A 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.

Second Development

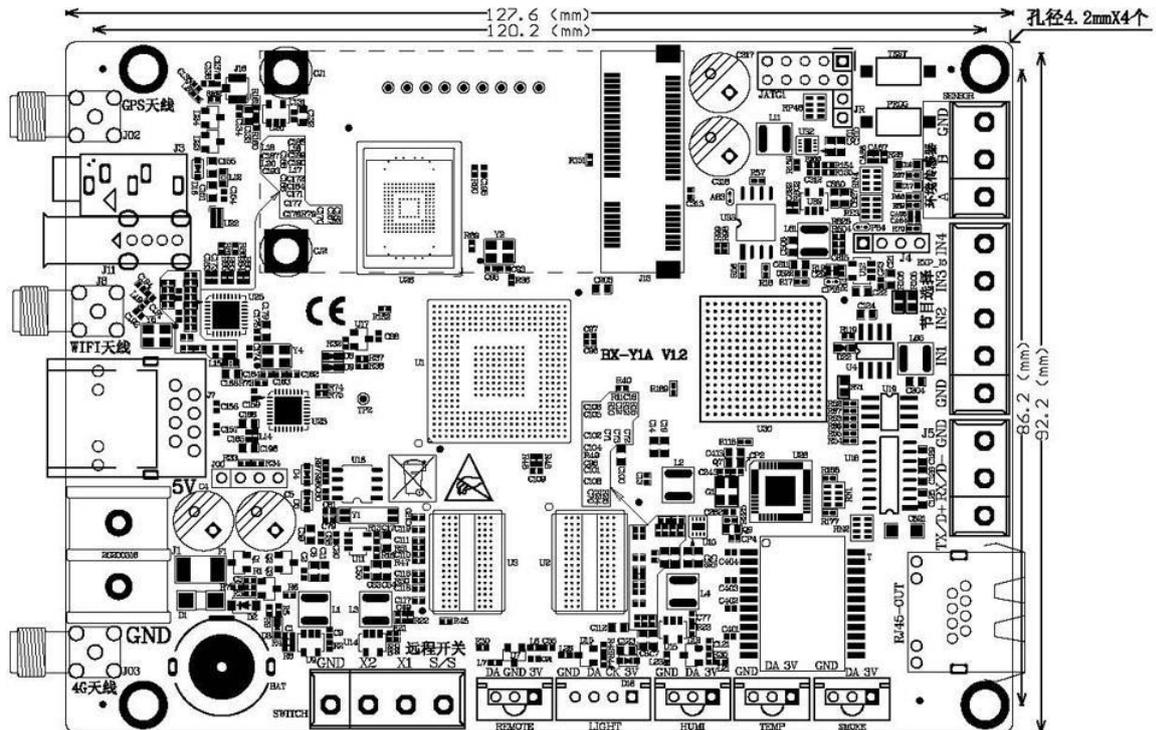
The product supports secondary development kits of major operating systems such as WINDOWS/LINUX/ANDROID/iOS, including various dynamic libraries, communication protocols, test routines, etc.; supports mainstream programming languages such as JAVA/C/C++/C#/Delphi, etc. Carry out secondary development on various platforms to meet the development and expansion of user-specific customization functions to the greatest extent.

Technical specifications

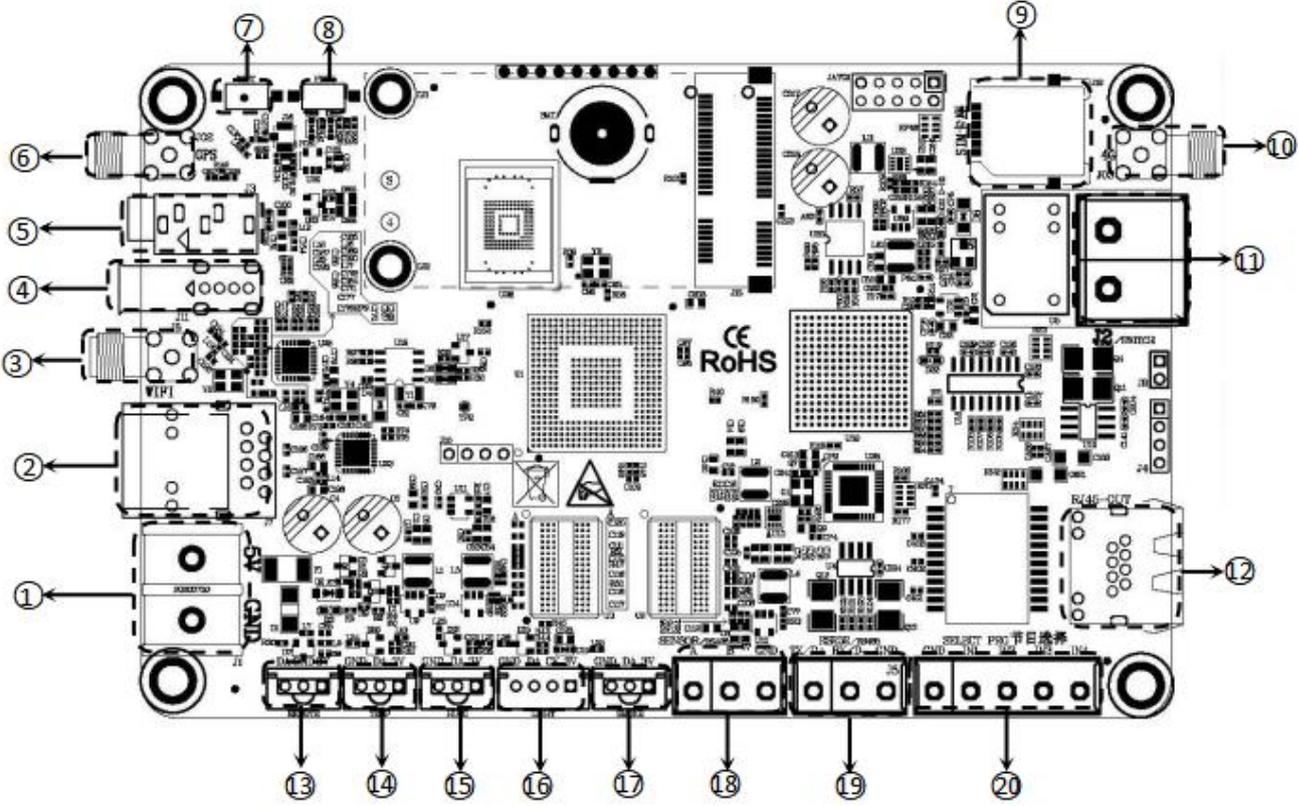
Screen index	
Parameter	Specification
Minimum size	64 × 64
Maximum size	1024×600
Maximum width	8192
Maximum height	2048

Product specification	
Input power supply	5V (3.3V ~ 6V broad operation voltage)
Power Dissipation	≤10W
Temperature	-40°C ~ 80°C

Dimension diagram



Interface diagram



Interface instruction		
1	Power terminal	5V Power interface, DC voltage input, voltage 5V, support(3.3V ~ 5.5V)
2	100M	Ethernet interface, connected to the computer
3	Antenna	Connect WIFI antenna
4	USB	USB port, transfer program via USB
5	AUDIO	Audio output port
6	Antenna	Connect with GPS antenna (optional)
7	TEST	Test button
8	PROG	Program switch button
9	SIM card socket	Connect with SIM card (optional)
10	Antenna	Connect with 4G antenna (optional)
11	SWITCH	Relay switch interface
12	Output network	Connect with receiving card
13	IR	IR controller interface
14	TEMP	TEMP sensor interface
15	HUMI	HUMI/TEMP sensor interface
16	LIGHT	Brightness sensor interface
17	SMOKE	Smoke sensor
18	Sensor	RS485 to connect kinds of environmental sensors
19	RS485/ RS232	RS485 on board, RS232 is optional
20	Program selection	4-bit program selection

CONTACT US



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