

# **BX-Y3E Specification**

#### SPECIFICATION

Before you use the brightness sensor, please read this file first and save it for

we will struggle and serve for the booming development of LED industry/

Version : V1.4 Release : 2023.12.8

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## **Brief Introduction**

Thanks for ordering ONBON 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.

# Guiding Safety Notes

◆ Input voltage is 12V, please make sure the quality of the power supply of BX-Y3E 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 take off the power supply of LED video processor before you do any hardware operations, and ESD by touching the ground.

• 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.



## **Picture**



## **Characteristics**

- Support 19200 pixels in width;
- ◆ Total pixel ≤ 1280K points: 1280\*1024 (width ≤ 19200, height ≤ 1920) ,two gigabit output;
- 8 Gbyte storage capacity, USB storage expansion to 256GB;
- On-board IR controller sensor port, brightness, temperature / humidity sensor interface;
- UV three-protection glue for all types, national standard 85 protection level, dust prevention, dampproof, anti-static, salt-spray proof;
- -40 °C ~ 80 °C, 3.5v-5.5v wide voltage, 7 \* 24 hours power-on, fault rate  $\leq$  0.3%.
- Video input port: 1 HDMI input;
- Video & Audio output port: 1 HDMI output, 1 AUDIO output, and can be connected with
- ♦ LCD screen;
- Support USB plugging and playing, or download to U flash.
- Support group controlling, group sending.
- Support IR controller;
- Support temperature, humidity and brightness sensor.
- Brightness adjustment: manually, automatically.
- Support 512 programs, each program supports 8 areas.
- Support many areas: Image & Text, subtitle, video, lunar, clock, timer, temperature, humidity, announcement, weather broadcast;
- Support database;

## **Function Introduction**

#### Control area

There's 2 gigabit output Ethernet, total pixels≤1280K: Ethernet port supports 1280×1024, maximum width is 19200, maximum height is 1920pixels.

## Support high refresh

Y series controllers support high refresh (refresh here refers to the refresh of LED screen scanning by receiving card). When users use the camera or mobile phone to shoot the large LED screen, the picture will not be distorted, there is no scan line, and the effect is very good. The product supports any adjustment of the moving speed of the picture, which makes the picture move more smoothly and the text move left, and the display effect is smoother.

#### HD video

Our software support 2 1080P internal video areas, adopt high performance CPU, users can display smooth videos; There' s 1 HDMI input, external video can be displayed as one video area, as to support PIP function. It supports synchronous, external video can be displayed in the whole screen.

#### Support WiFi

For general intranet topology and short-distance wireless applications, users can open the built-in WiFi of the controller, access their own router, and realize online control and management. Users can also turn on the WiFi hotspot of the controller and connect their PC to the controller to realize management and control. For the hotspot of the controller, the user can set the password and manage the authority.

#### Support 4G and GPS

It can be equipped with 4G and GPS. After logging in on the iledcloud cloud platform, in addition to

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remote editing programs, previewing programs, regular and fixed-point broadcasting and other functions, when the controller obtains the returned positioning signal, it can locate the screen position, and display the screen position in the satellite map positioning interface of the iLedcloud cloud platform.

#### Support both synchronous and asynchronous

Support two modes: synchronous and asynchronous. In asynchronous mode, users can arrange by themselves, send programs. External video signal can be the area of asynchronous program, then display together with internal video. In synchronous mode, controller can accept external input video signal equipment, synchronously display the content and voice of TV, STB, DVD.

#### Multiple management platform

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

Built in 4G storage for high resolution video. And support extending to 256GB

#### 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 3D

Support abundant areas: image & text, subtitle, video, lunar, clock, timer, temperature, humidity, releasing, weather broadcast. For images and text, you can get 3D effect by adding



some stunt.

#### 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 trans-coding 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**

It supports remotely 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

On-board temperature, humidity, brightness ports & RS485 port for many kinds of

environmental sensors. It can measure and display temperature, humidity, brightness, noise,

PM2.5, PM10, wind direction, wind speed, etc

#### **Timer 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.

## **Support SDK**

The product supports dynamic region and provides a complete set of development tools such as C #, Java, VB and C + +. Support c + + development of Linux system, and open communication protocol, support HTTP protocol communication, users can carry out secondary development of the control card according to the needs, to achieve special functions.

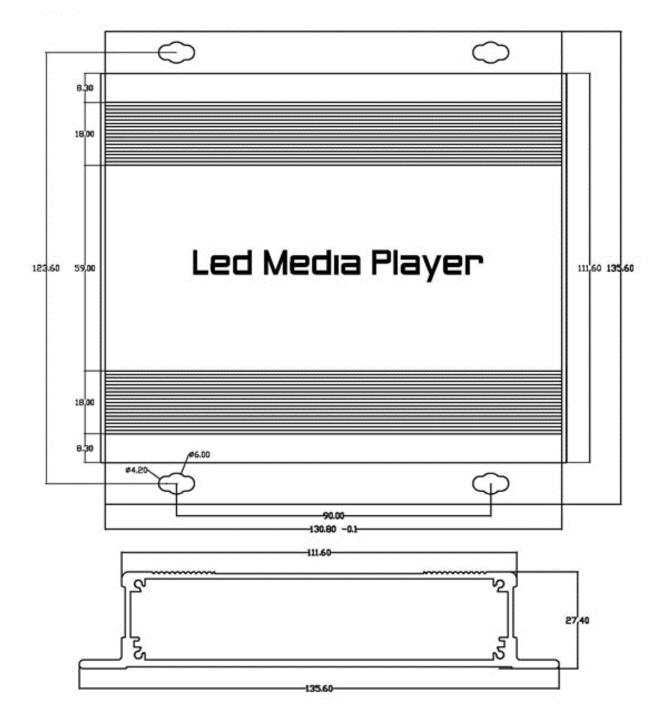
# **Technical Specifications**

Screen Parameters		
Parameters	Specification	
Min Pixels	64 × 32	
Control size	1280×1024	
Maximum width	19200	
Maximum height	1920	

Specification	
Working voltage	12V
Power consumption	≤10W
Working temperature	-40°C ~ 80°C



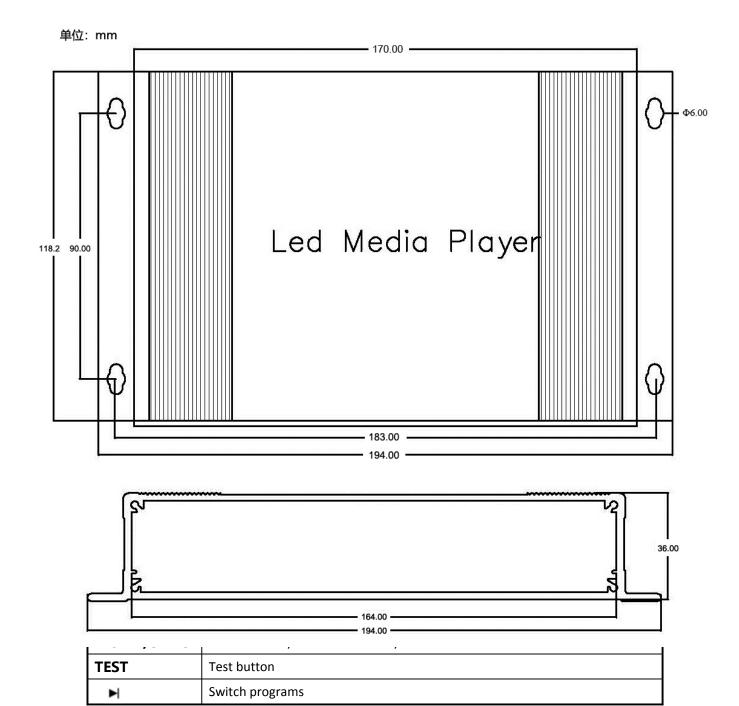
#### **Physical Dimension**



Physical Dimension



#### Older version dimension



## **Front panel**



Back panel



Button description		
LED1~ LED2	2 gigabit ports, connect with receiving cards	
AUDIO -OUT	1 nos 3.5 Audio output	
HDMI –IN	1 HDMI input	
A/sync	Asynchronous and synchronous mode button	
12V	12V power interface, rated current 2.5A	



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