



# **BX-C1A Specifications**

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## Guiding

## **Safety Notes**

- ◆ Input voltage is 3.5V ~ 5.5V, please make sure the quality of the power supply of BX-C 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.

## Feature

- ◆ Used for intelligent lamp-post screens, traffic screen, technical index is same with BX-C1
- ◆ Support 32 dynamic areas and real-time refresh programs;
- ◆ Compatible with the mainstream platform protocol in the security industry and the mainstream traffic signal equipment protocol in the market, free of secondary development.
- ◆ On board normal sensor ports and RS485 environmental sensor port, relay on-off, 4 bits program port;
- ◆ Standard with 100M Ethernet+RS485/RS232 serial port+ RS485 environmental sensor port+ USB port+ WIFI port;
- ◆ BX-4Gu4 wireless module is optional.
- ◆ Support USB flash disk expansion to 256GB, and USB flash disk plug and play.
- ◆ Support mobile phone APP software operation to facilitate users' remote and convenient control of program release and management.
- ◆ 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 ≤ 0.3%.

## Function Introduction

## **Control area**

BX-C1A has one gigabit output; , Total pixel  $\leq 600K$  points: 1024 \* 600 (width  $\leq 2048$ , height  $\leq 2048$ ) ,Flexible control area, rich display functions and high cost performance.

## **HD video playback**

The controller adopts high-performance CPU, and the hardware has super image decoding performance. It supports two video areas, and can play high-definition video smoothly.

## **Multiple communication mode**

The controller is on board a 100M network interface, Optional wireless WIFI, 4G wireless communication interface and independent GPS interface, BX-4Gu1/4Gu4 wireless module and GPS.

## **Multiple management platform**

There are different types of control platform for BX-C series, 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-C1A built in 4G storage for high resolution video. And support extending to 256GB.

## **Support GPS position**

BX-C series supports the convenient access of GPS module, positioning and speed measurement,

and can accurately locate vehicles. The vehicle mounted screen can display the vehicle moving track in real time, which is convenient to understand the real-time information of vehicles and personnel, and achieve better vehicle management and scheduling. After the controller is equipped with GPS, after logging in to the iLEDCloud cloud platform, in addition to remote program editing, program preview, fixed time playback and other functions, when the controller obtains the returned positioning signal, it can locate the screen position, and display the screen position on the satellite map positioning interface of the iLEDCloud cloud platform.

### **Support traffic screen**

It can support conventional traffic protocols on the market and is applicable to various traffic screen projects.

### **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.

### **Relay function**

The controller will soon support the relay function, and connect the external AC contactor switch through the interface of the product to realize remote control of the power switch of the air conditioner temperature limit, fan dehumidification and large screen, effectively reducing power consumption and saving power., It can meet the multiple switch control requirements of the double-sided screen of the smart light pole and other application scenarios.

### **Support Mobile App**

BX-C series supports 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 lots of sensors**

On-board temperature, humidity, brightness ports for many kinds of environmental sensors. It can accurately measure and display brightness, temperature and humidity. Provide accurate data reference for customers in places where temperature, humidity or brightness need to be strictly controlled. It can measure and display temperature, humidity, brightness, noise, PM2.5, PM10, wind direction, wind speed, etc. Provide accurate data reference for customers in places where temperature, humidity or noise need to be strictly controlled. In combination with the newly added environmental monitoring sensor interface, various environmental data can be visualized by using the sensor equipment for environmental detection.

## **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 realized.

## **Secondary development**

Provide secondary development packages supporting major operating systems such as WINDOWS/LINUX/ANDROID/iOS, including various dynamic libraries, communication protocols, test routines, etc;

Support mainstream programming languages such as JAVA/C/C++/C #/Delphi, and support users to carry out secondary development on various platforms to maximize the development and expansion of users' personalized customization functions.

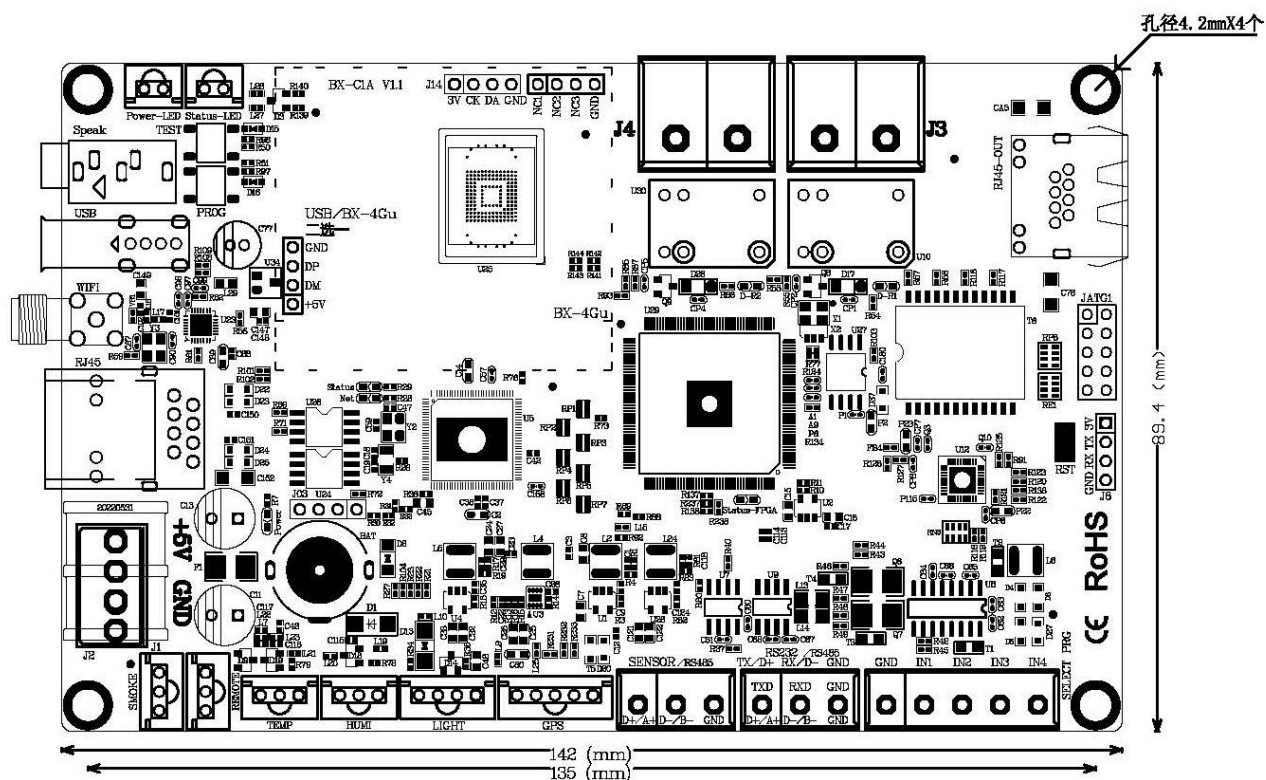
## Technical specifications

Screen indicators	
Parameter	Specification
Minimum control pixels	64 × 64
Maximum control pixels	1024×600
Maximum width	7968
Maximum height	2048

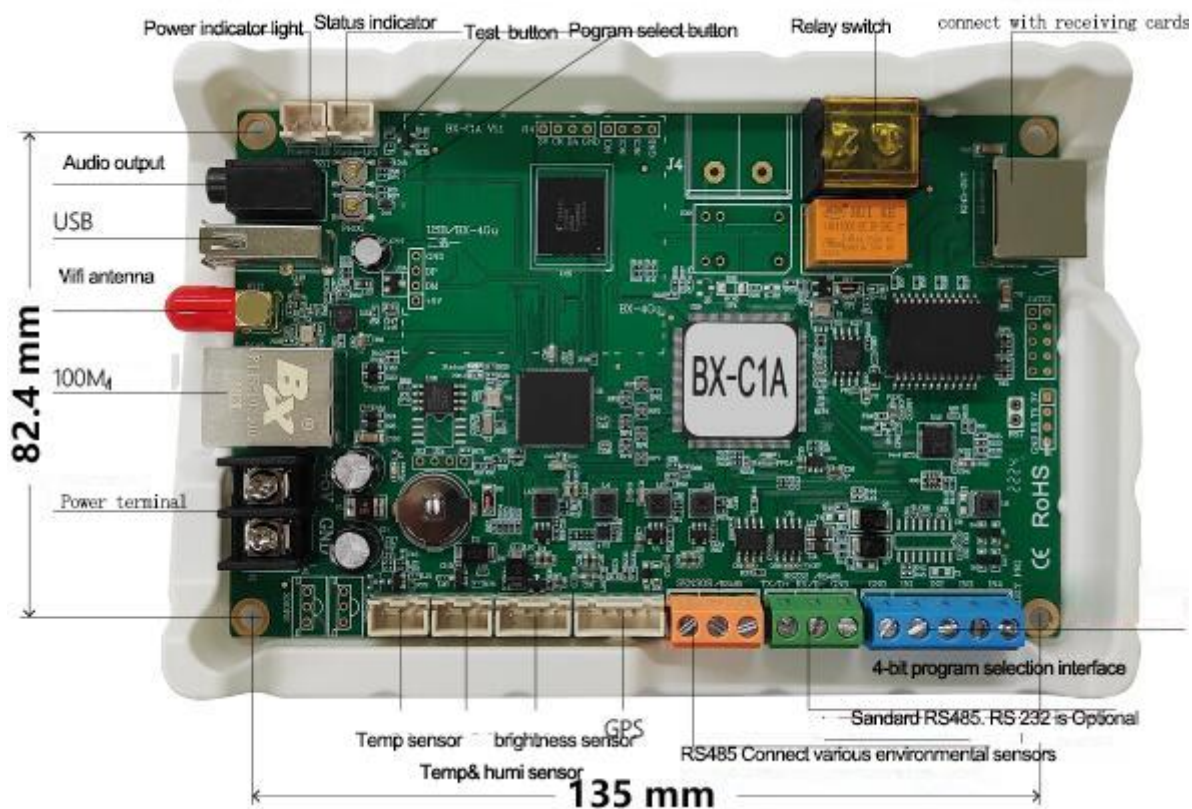
Complete machine specification	
Input voltage	3.5V ~ 5.5V ; Please strictly guarantee the power quality of BX-C series
Power consumption	≤10W
Working temperature	-40℃ ~ 80℃



## Dimension diagram



## Interface Diagram



PCB thickness  $\leq 20\text{MM}$

Optional BX-4Gu1 /4Gu4 wireless module , Thickness  $\leq 22\text{M}$

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