onbon 仰邦科技

全系列LED控制器制造商 | LED应用系统专家

LED Sending card

User Manual

⚠ 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-VS synchronous sending card

Statement

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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

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.

Characteristics

◆ Simple structure, easy installation

◆ Better Gigabit LAN controlling technology,BX Gigabit LAN synchronous controller can display smoothly

◆ Abundant display effect: ,pursue to improve more details and technical creation.

◆ The most we think about is the convenience for customers. Easy to operate and install, no need for training.

◆ Hardware update online ,protect maximum benefit of the users.

◆ The first choice for small pitch of Led screen

Guiding

<u>Safety Notes</u>

◆ Input voltage is 5V, voltage range is from 4.5V-5.5V, please make sure the quality of the power supply of BX-VS 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 instruction

BX-VS sending card is using Gigabit ethernet controlling technology, the control size of each sending card can reach maximum 1.3 million pixels .. It has hot backup function for the display content of each ethernet port.

It contains 1 DVI video input, can support 1920×1080、1280×1024、1024×768、1366×768、1600×900、2304*1152 and other resolutions. At the same time the resolution can be customized .while the frame rate can also be customized , the user can arbitrarily capture the specified display range of resolution. One nos audio input use together with BX-VMF multi-function card can achieve audio output.

Its structure is simple and easy to install, simple operation can achieve the best dosplay results The BX-VS sending card is the first choice for small pitch of LED displays.

Custom Resolution

BX-VS sending card supports 1920 × 1080,1280 × 1024,1024 × 768,1366 × 768,1600 × 900,2304 * 1024 resolution, it can also support custom resolution setting according to the user's actual LED screen sizeby adjust the computer's output resolution. Support 30 to 60 frame custom frame rate output to meet some of the super large screen display's demand .

Flexible control size

BX-VS sending card each Ethernet port support maximum 650,000 pixels, Two Ethernet ports support 1.3 million pixels under the 60-frame output, the equivalent of the output area is 1280* 1024. The maximum output in height is 1024 pixels and maximum output in width is 2048 pixels.Under this limitation, it can achieve flexible interception of pictures in the input resolution range .it can also support cascade maximum 4 BX-VS , in order to achieve greater display screen playback control. When cascade 2 BX-VS the display area can up to 2560 * 1024 .

Hot backup function of each ethernet port

BX-VS support hot backup function of each ethernet port, it is onboard 2 ethernet ports,2 ports can be mutual backup. By setting the same coordinates of the playing area, the two network ports are respectively connected with the network port of the receiving card by the network cable, so that two-way backup of the display content can be achieved. Any cascading direction of the network failure, it can instantly switch to another network port to continue to display.

In addition to support it's own ethernet ports hot backup, it can also support any ethernet port between the sending controllers mutual hot backup. As long as each of theBX-VS sending cards' ethernet port connected to the receiving card's input and output interface, set the same playback area coordinates can be achieved hot backup function.

Rich input interface

BX-VS Sending card contains a DVI interface. It can support HDMI signal with one HDMI to DVI cable .It is onboard 1 nos audio signal input interface, when match   with BX-VMF multi-function card, it can achieve audio output to the special screen.

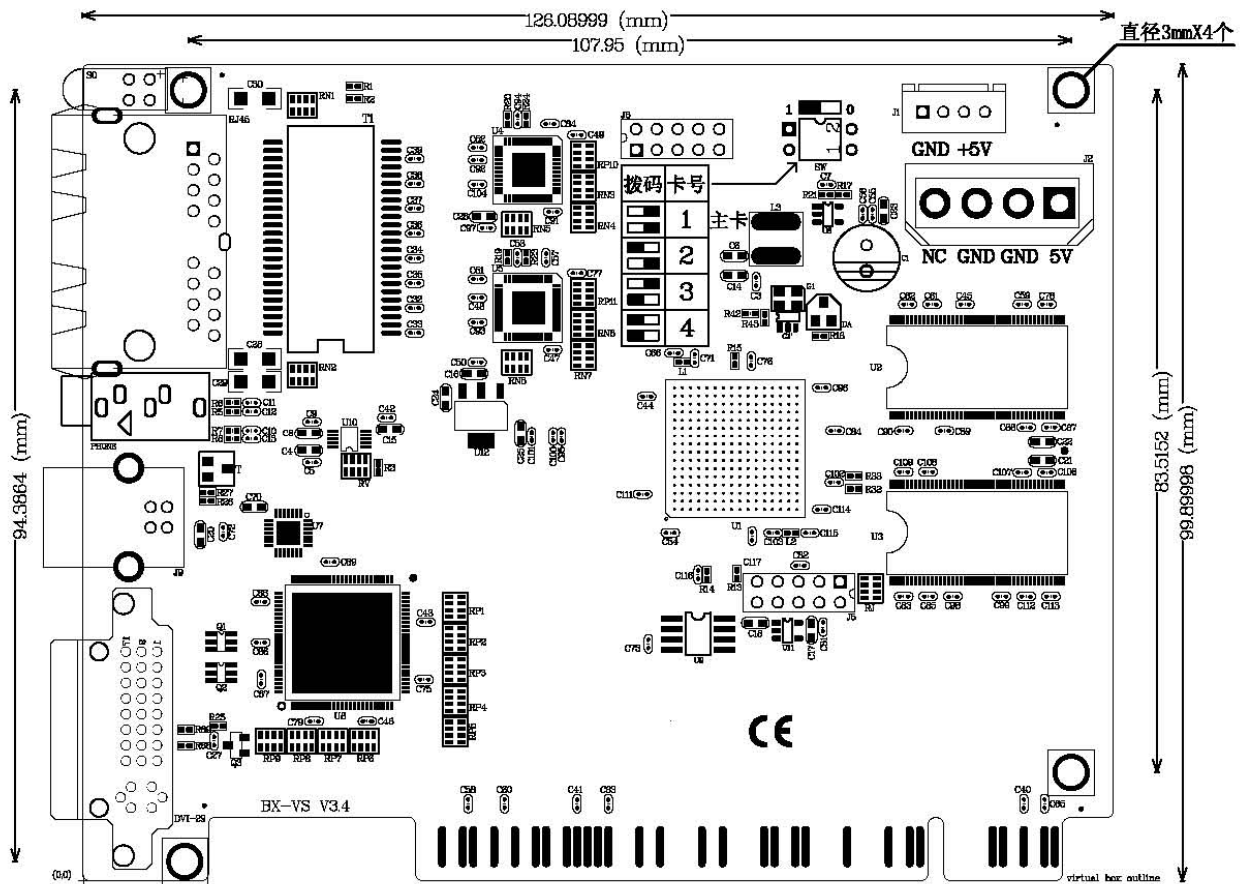Users can set the screen parameters and management of the controller through the USB interface.

Technical specifications

Screen parameter	
Parameter	Specifications
Min Pixels	32 x32
Control size	1280*1024 @60Hz；2048*1024 @30Hz
Total Pixels	≤1280*1024
Max pixels in width	≤2048
Max pixels in height	≤1024
Video input intreface	DVI Interface，computer must have independent DVI.

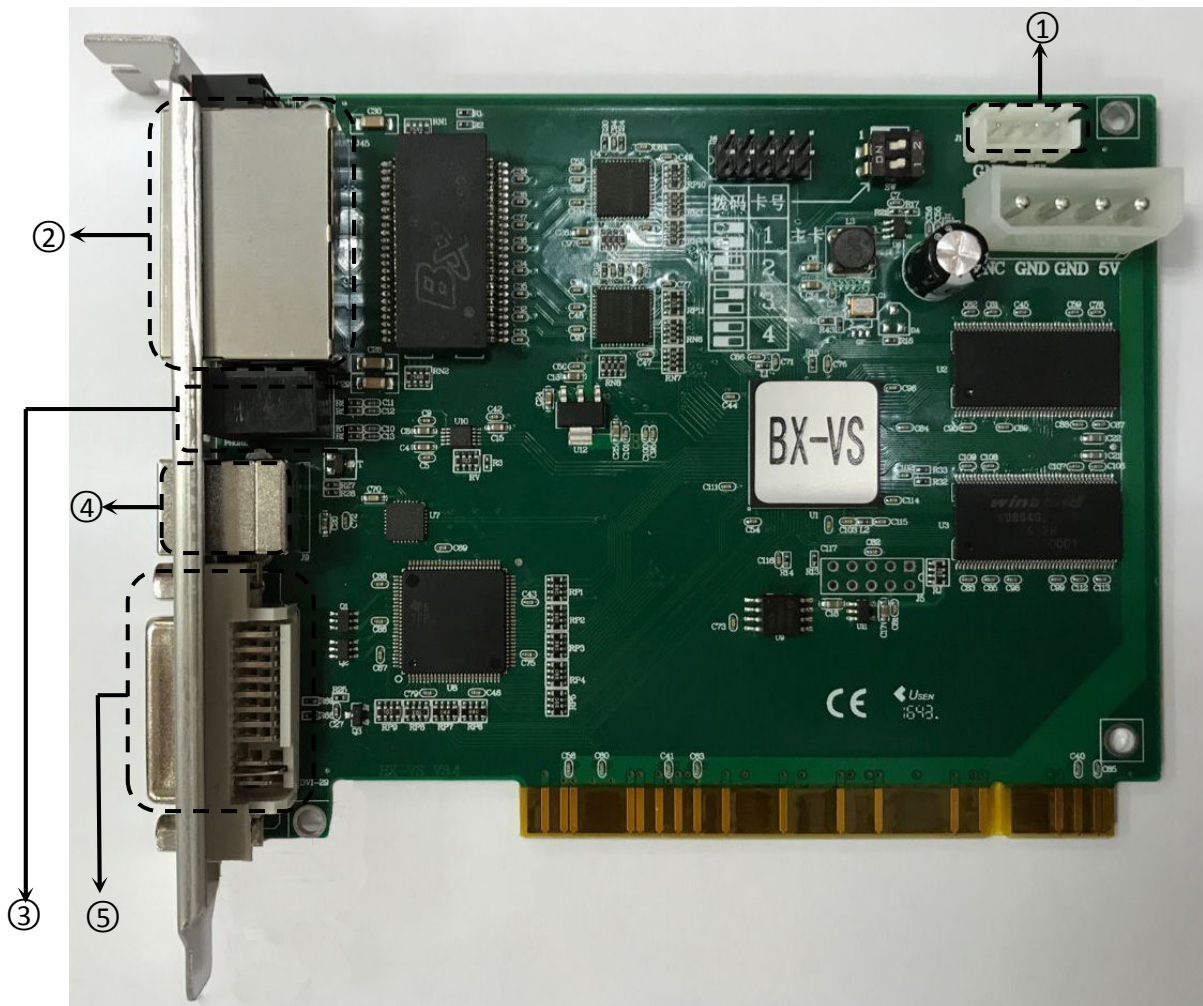| Video output intreface	2 Gigabit Ethernet ports

Specifiction	
Working voltage	4.5-5.5V; please make sure the quality of the power supply of BX-VS
Power consumption	≤4W
Working temperature	-40℃～80℃
Shape	126mm∅100mm

Physical dimension

Interface illustration

⑦

Interface		
1	DC 5V	5V Power interface, DC voltage input,rated voltage 5V, support 4.5V ~ 5.5V
2	LAN	Gigabit Ethernet interface, Fast Ethernet, connected to the computer

3	AUDIO	3.5 mm stereo, 1 nos audio input
4	USB	Serial cable interface
5	DVI input	1nos DVI（Support HDMI tranfer to DVI）

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