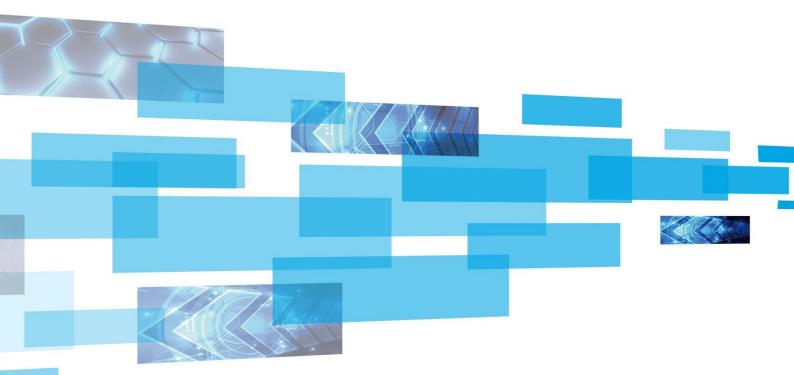


FPGA Receiving Card D60-320



Product Specification

Version: Ver.1.0

Statement

Dear user friend, thanks for choosing Shanghai Xixun Electronic Technology Co., Ltd. (hereinafter referred to as Xixun Technology) as your LED advertising equipment control system. The main purpose of this document is to help you quickly understand and use the product. We strive to be precise and reliable when writing the document, and the content may be modified or changed at any time without notice.

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Update Record

NO.	Version No.	Upadates	Revision Date
1	Ver.1.0	Initial issue	2022.11.09
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Product Introduction

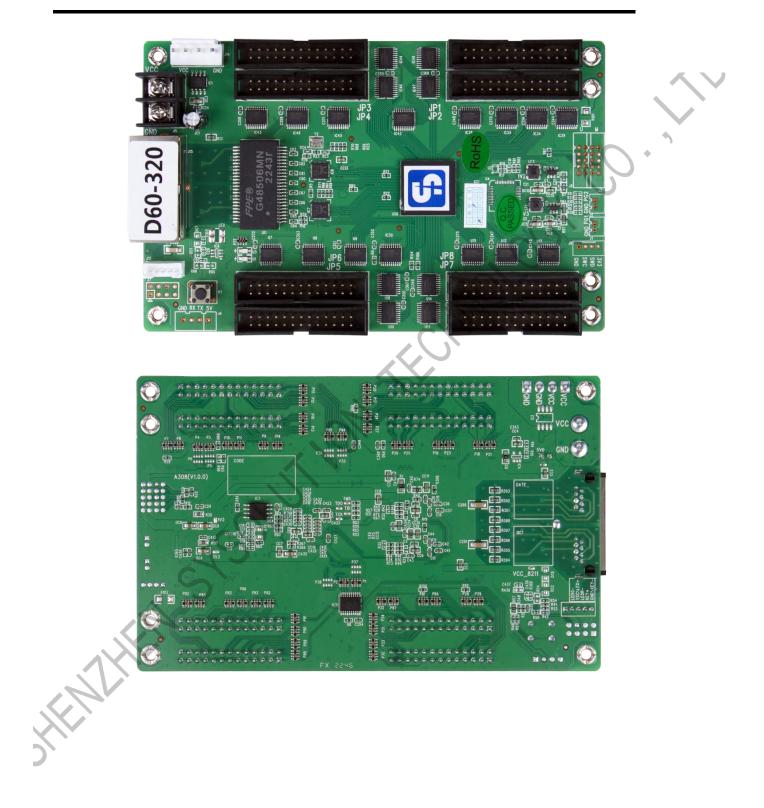
Sysolution D60-320 is a small pitch receiving card. It adopts 8 standard HUB320 (26Pin) interfaces, and supports maximum 32 groups of the RGB parallel data. The maximum loading capacity could reach up to 512x640 pixels; with powerful processing ability, super reliability and high competitive price.

Application Scenarios

It could be widely used for high-end small pixels pitch LED display area that requires high standards, and has significant advantages in the application scenarios such as command centre, monitoring centre, large conference, live TV station and hotel exhibition projects.

SHEWLIN

Product Picture



Loading Capacity

(RGB) RGB Parallel	Data interfaces/Number	Driver	The Maximum Loading Capacity (Pixel s)	Loading Capacity(Pixel s) Loading Capacity After lightness Calibrating (Pixels)	Loading Capacity after Color Calibrating (Pixels)
		Normal	512*640	512*640	512*512
32 Groups	HUB75E/8		•		
	interfaces	PWM	512*640	512*640	512*512

	Single Network		
	Port Cascading	Scanning Lines Supported	
	Quantity	0	
	≤1000PCS	1-64 Scan	
	CHL		
5			

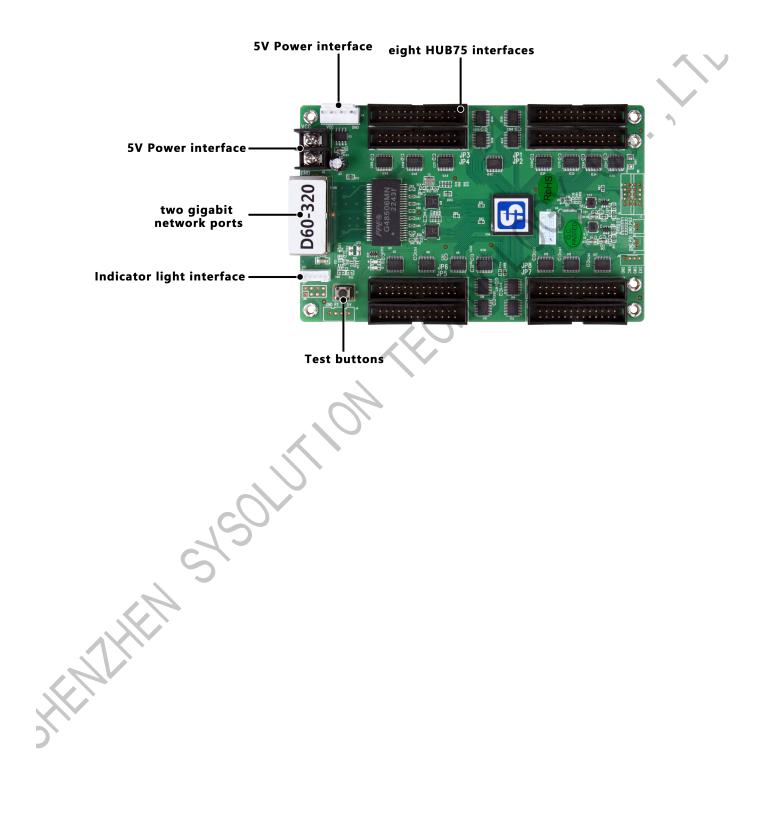
Function Introduction

	Functions		Introduction	
		1.	Supports point-to-point brightness and chroma	
			calibration: With the Calibration software, it can	•
			calibrate each one of the pixels on its brightness	
			and chroma of the large screen, so as to	
			effectively eliminate colour differences, enhance	
			consistency of the brightness and chroma to	
			reach a high level, and improve the quality of the	
			display.	
		2.	Support multiple solutions of the display effects:	
	Improved display	Ś	with LedSet4.0 software, its refresh and	
	1501		greyscale performances are able to take the	
	S		precedence over other settings.	
		3.	Support 90 degree screen rotation of the led	
	141		screen: with LedSet4.0 software, the screen of	
			the receiving card can be rotated by 90 degree.	
5		4.	Support screen zoom: with LedSet4.0 software,	
			the pixels on the receiver card can be scaled in	
			multiples to zoom in and out of the display.	

		1.	Support detection of the receiving card	
			sequence number: with network port testing	
			function on the LedSet4.0 software, the target	
			box will display the receiving card serial number	
			and the network port information. User will able	
			to know thelocations of the receiving cards as	•
			well as its Connection diagram.	
		2.	Support data port user-definition: with	
			LedSet4.0 software, users can detect and edit the	
	Improved operability		output data of the receiving cards.	
		3.	Support the construction of complicated boxes:	
			with the 'Advanced Setting' on the LedSet 4.0	
		\langle	software, users can quickly arranged and	
			constructed the box modules in any way.	
	190	4.	Support the construction of complicated and	
	S		large screens: with "Complicated Led Screen	
			Connection" on the LedSet 4.0 software, users	
			can quickly arranged and constructed the boxes	
			in any way.	
5		1.	Network Cable Backup: The network port is	
	Hardware Stability		connected via a main and backup network loop	
			to increase the reliability of the receiving card's	

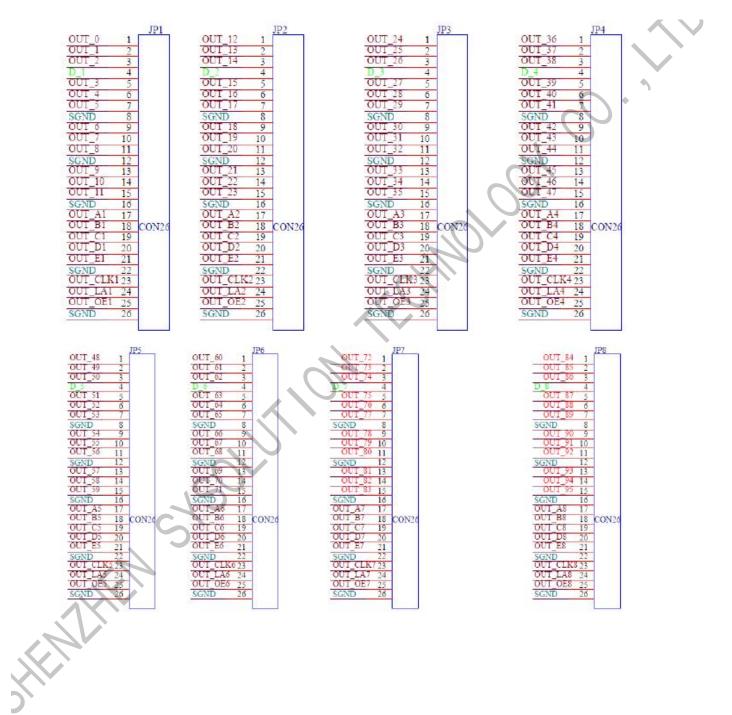
			serial connection. When one of the main and	
			backup serial lines fails, the other one will take	
			its job to keep the led display working properly.	
		1.	Support reading back the configuration	$\langle \langle \vee \rangle$
			parameters of the receiver card: with LedSet 4.0	
			software, users can read back the current	•
			configuration parameters of the receiver card.	
		2.	Support network cable BER detection: with	
			LedSet 4.0 software, users can monitor the	
	c		communication signal quality of the network	
	Smart software		cable connected to the system hardware in real	
			time so as to quickly determine whether the	
			network cable is good or bad and then get rid of	
		\mathbf{b}	any errors immediately.	
	150	3.	Support communication monitor: with LedSet	
	S		4.0 software, users can monitor the Real-time	
			working status of the receiver card.	
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Interfaces Definition

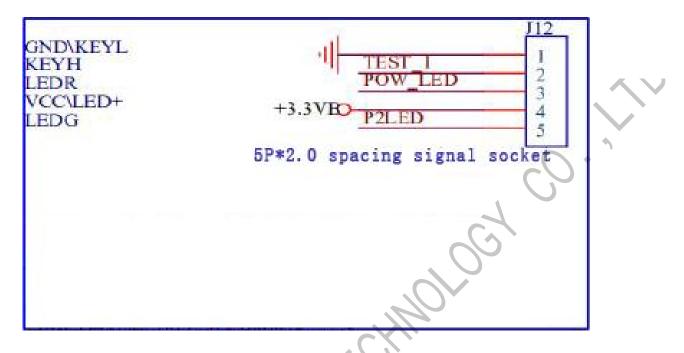


Output Port Definition

Port Definition of the 32 Groups of parallel connection data



External interfaces



- 1. TEST_1, Normally high level, when low level is detected, output test signal
- 2. LEDR, On when turn on power normally
- 3. LEDG, When the signal is fed from the PO port, the light flashes faster; When the signal is

fed from the PI port, the light flashes slower.

Definitio	n of the external interfaces between the LED and the button
NO.	Туре
1	GND Negative pole of the switch
2	Positive pole of the external switch
3	Negative pole of the external red light, illuminated when powered on
4	+3.3V voltage
5	negative poke of the external green light

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JP1—JP8 PIN definition

Definition	PIN	PIN	Definition
R	1	2	6
В	3	4	D_x (Read storage)
R	5	6	G
В	7	8	GND
R	9	10	G
В	11	12	GND
R	13	14	G
В	15	16	GND
OUT_A1	17	18	OUT_B1
OUT_C1	19	20	OUT_D1
OUT_E1	21	22	GND
OUT_CLK1	23	24	OUT_LA1
OUT_OE1	25	26	GND

J6 PIN Definition

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PIN	1	2	3	4
Definition	GND	SWCLK	SWDIO	+3.3V

J11 PIN Definition

)	Definition	VBB	GND	FLS_S	FLS_DO	FLS_CLK
	Pin	1	2	3	4	5
	Pin	10	9	8	7	6

www.sysolution.net

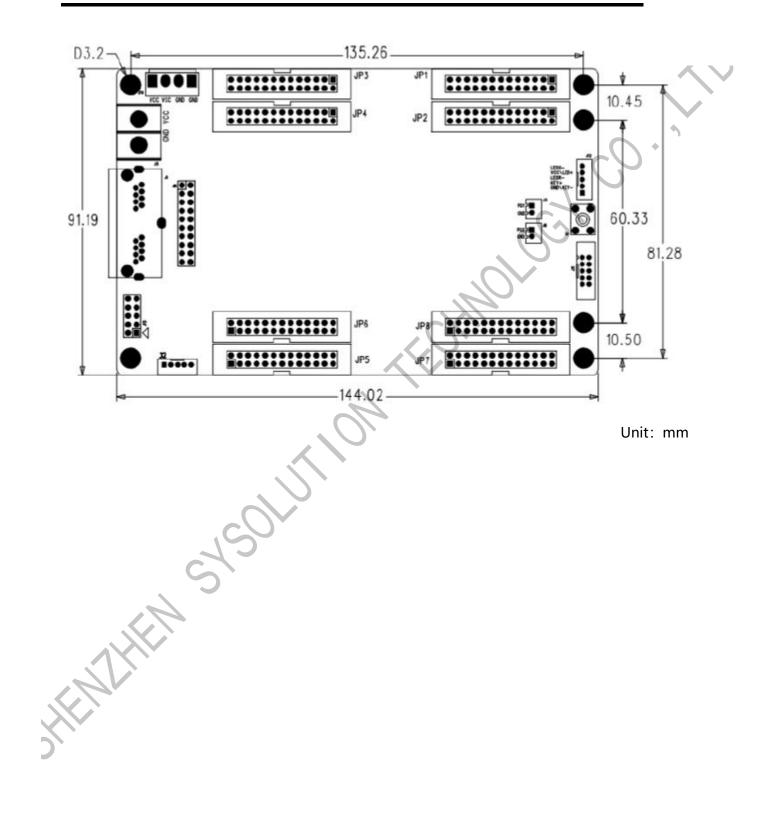
Definition	VBB	GND	mCONF_DONE	PROGRAM_B	FLS_DI
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Indicator Illustration

Indicator	Position	Status	Illustration
		Flickering Slowly at a constant	It means the receiving card is working properly, the Ethernet Cable Connection is fine and there is no DVI Signal Input.
Status indicator(green)	U6	Flickering Fast at a constant	It means the receiving card is working properly, the Ethernet Cable Connection is fine, and there is DVI Signal Input.
		It goes out	It means there is No Gigabit Ethernet Signal.
NLHE N		Fast Flickering 3 Tunes	It means the receiving card is working properly, the Ethernet Cable Loop Connection is fine, and there is DVI Signal Input.
Status indicator (red)	U5	solid On	It means the power is On

Dimensions



Working Parameter

			-
Electric Parameters	Input Voltage	DC3.5-5.5V	
	Rated Current	0.6A	
	Rated Power	3W	
Electric Parameters	Operating Temperature	-20°C-70°C	-
	Operating Humidity	10%RH-90%RH	
Storage Environment	Temperature	-25°C ~ 125°C	
Board card dimensions	144.02mmX91.19mm		
Net Weight	110g		
Certifications	It conforms to RoHS and CE-EMC standards.		

SHEWLIEW

Precautions

- The testing (debugging) and installation should be done by the qualified professionals . 1.
- 2. Must be anti-Static.
- HERMIEN SYSOLUTION TECHNOLOGY

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