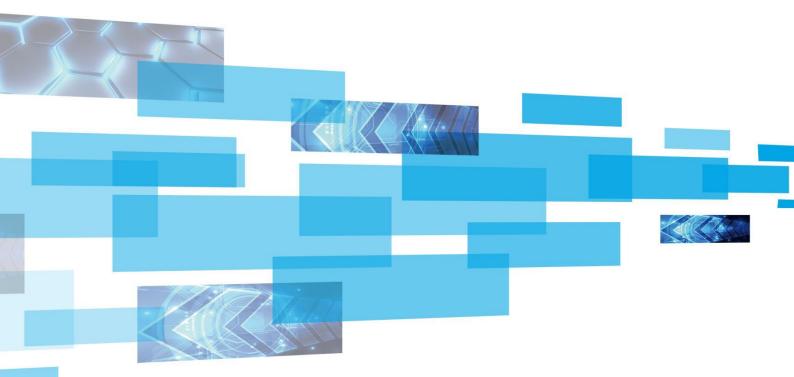
FPGA Receiving Card D60-12



Product specification

Version: Ver.1.0

Statement

Dear user friend, thanks for choosing SHENZHEN SYSOLUTION 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

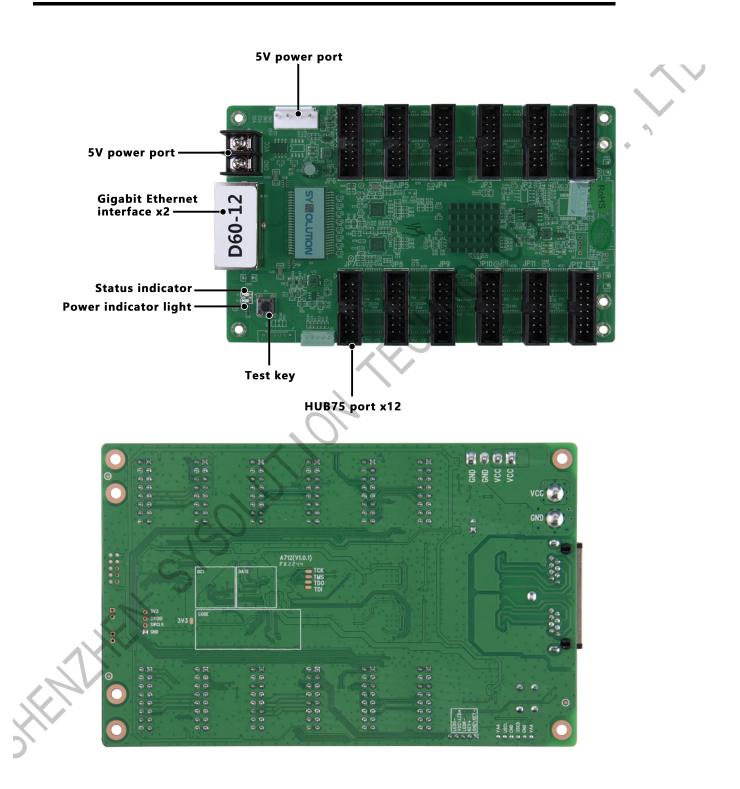
D60-12 is a standard receiving card launched by Xixun Technology. It adopts 12standard HUB75E interfaces and supports up to 24 groups of RGB parallel data. Load up to 512X384 pixels; It has strong processing capacity, super stable performance and high cost performance.

Application scenarios

It can be widely used in the high-end display field with high requirements, and has significant advantages in the application scenarios such as LED screen rental, TV live broadcast, LED screen for large-scale activities, and high-end engineering channel projects.

South

Product Picture



Load Capacity

Three				Brightness	Chromaticity
	Data	Drive	Maximum	correction	correction
parallel	interface/quantity	Drive	load (Pixels)	band load	with load
lines (RGB)				(Pixel)	(Pixels)
24		Routine	512*320	512*256	256*320
24 group	HUB75E/12	PWM	512*384	512*256	256*320

Number of cascade cards	Support scan line	
≤1000PCS	1-64 sweep	

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Function Definition

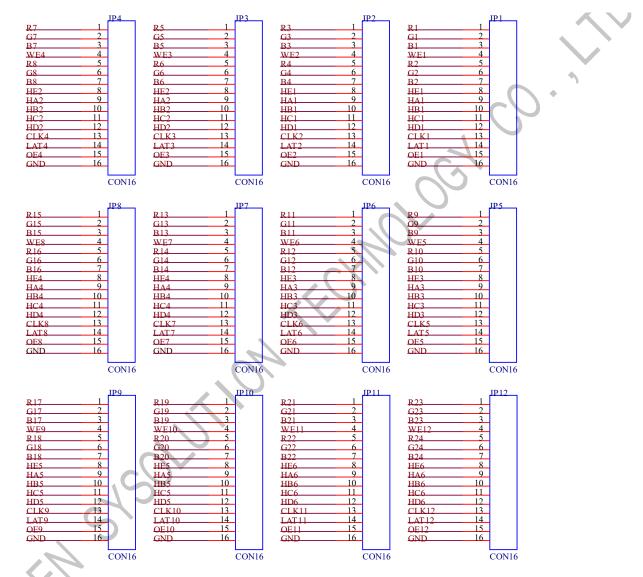
	Function		Instructions	
		1.	Support by lighting chrominance correction:	
			with the correction software, the brightness and	•
			chrominance of each light point on the large	
			screen can be corrected, effectively eliminating	
			color difference, so that the brightness and	
			chrominance of the display can reach a high	
			degree of consistency, and improve the picture	
			quality of the display.	
	Improved Display Effect	2.	Support multiple display effects schemes: With	
	improved Display Enect	\langle	LedSet4.0 software to achieve refresh priority	
	S		and grayscale priority effects.	
	S	3.	Support screen rotation by 90° multiple: With	
			the LedSet4.0 software to realize, it can rotate	
	1		the screen of the receiving card by 90° multiple.	
		4.	Support screen zoom function: With LedSet4.0	
5			software, the receiving card pixelscan be scaled	
			by multiples, and the screen can be enlarged and	
			reduced.	

				-
		1.	Support receiving card serial number detection:	
			Cooperate with the network debugging function	
			of LedSet4.0 software, thereceiving card number	
			and network portinformation will be displayed	$\langle \cdot \rangle$
			on the target box, and the user can obtain the	
			location number and connection line of	•
			thereceiving card.	
		2.	Support data interface customization : With	
	Improved Operability		LedSet 3.0 software, the output data of the	
			receiving card can be detected and edited.	
		3.	Supports the construction of complex box: With	
			the advanced layout of LedSet4.0 software, you	
			can quickly arrange andstructure the box	
		S.	modules.	
	150	4.	Supports the construction of complex large	
	S		screens: In the complex display connection with	
			LedSet4.0 software, the boxes can be quickly	
			arranged and structured arbitrarily.	
		1.	Network port hot backup: Network ports	1
5	Improved Hardware		increase the reliability of serial connectionof the	
	Stability		receiving card through the loop connection of	
			the main and standby network cables. When one	
		-		-

of the main and standby series lines fails, the other can ensure the normal display of the screen. 2. Support hardware reset function: The receiving card can restart the online hardware by itself after the hardware online upgrade is completed. 1. Support receiving card configuration parameter readback: Can read back the current receiving card configuration parameters on LedSet 3.0. 2. Support network cable bit error rate detection: On LedSet 3.0, the quality of the network cable
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2. Support network cable bit error rate detection:
On LedSet 3.0, the quality of the network cable
Intelligent Software communication signal connected to the system
Upgrade hardware can be monitored in real time to
quickly judge the quality of the network cable
and troubleshoot.
3. Communication monitoring function: Monitor
the working status of the receiving card in real
time on LedSet 3.0.

Output Interface Definition

24 parallel data interface definitions



JP1——JP12 Data Interface Definition

Description	Definition	Pin	Pin	Definition	Description
~	R	1	2	G	RGB Data output
RGB Data output	В	3	4	GND	ground
	R	5	6	G	RGB Data output

	В	7	8	HE	Line deceding	
Line deceding signal	НА	9	10	НВ	Line decoding	
Line decoding signal	НС	11	12	HD	signal	
Shift clock output	CLK	13	14	LAT	Latch signal output	
Display enabl (remarks1)	OE	15	16	GND	ground	

Note 1: Pin 15 is the display enable pin. When PWM chip is used, it is GCLK signal.

J16 Interface definition

Definition	Pin	Pin	Definition
+5V	1	2	GND
FLS_CS	3	4	FLS_DO
FLS_CLK	5	6	FLS_DI
PROGRAM_B	7	8	mCONF_DONE
GND	9	10	+5V

J12 Indicator interface definition

Pin	19	2	3	4	5
Definition	GND/KEY-	KEY+	LEDR-	VCC/LED+	LEDG-

J14 Power socket definition

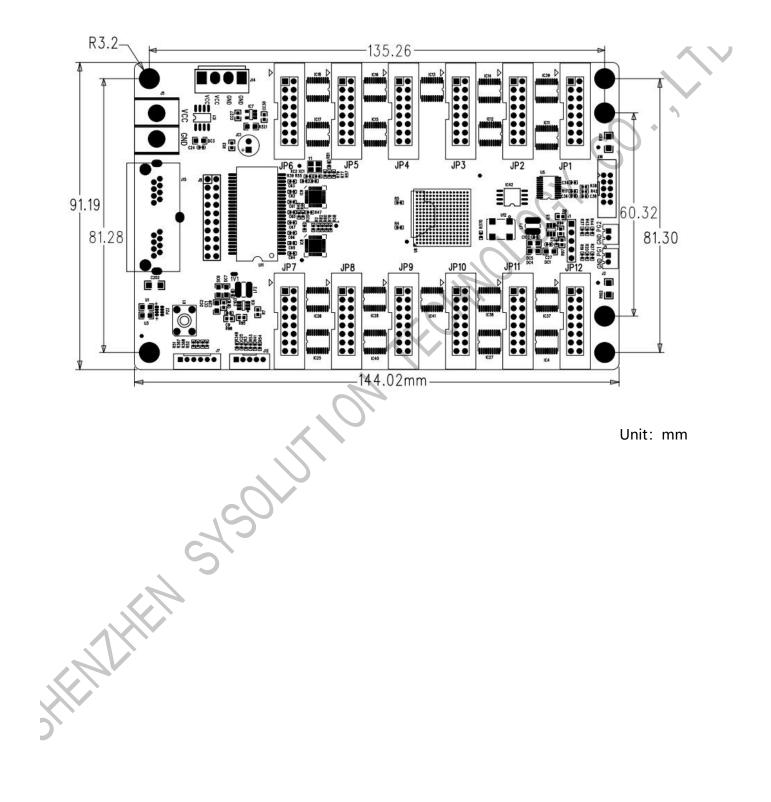
Pin	1	2	3	4
Definition	VCC	VCC	GND	GND

Indicator Description

Indicator	Location	State	Description
			The receiving card works
		Flashes evenly	normally, the network cable is
		and slowly	connected normally, and there is
			a DVI signal input.
			The receiving card works
Status indicator		Flashes evenly	normally, the network cable is
Status mulcator	U1	and quickly	connected normally, and there is
(green)			a DVI signal input.
-		Off	No Gigabit signal
			The receiving card works
		3 flashes quickly	normally, the network cable
		at intervals	circuit is in connection, and there
			is a DVI signal input.
Status indicator	U3		Normal nowor supply
(red)	05	On	Normal power supply

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Dimensions



Working Parameters

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Electrical parameters	Input voltage	DC3.5-5.5V	
	Rated current	0.6A	
	Rated power	3W	
Working environment	Working temperature	-20°C - 70°C	
	Working humidity	10%RH-90%RH	
Storage environment	Working temperature	-25°C ~ 125°C	
Board size	144.02mmX91.19mm		
Net weight	100.8g		
Certification Information	RoHS Compliant, CE-EMC Compliant]

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Note

- 1. Must be used in accordance with this usage requirement.
- 2. Installation and commissioning must be done by professionals and must be anti-static.
- Pay attention to waterproof and dust removal. 3. HEWLIEN

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