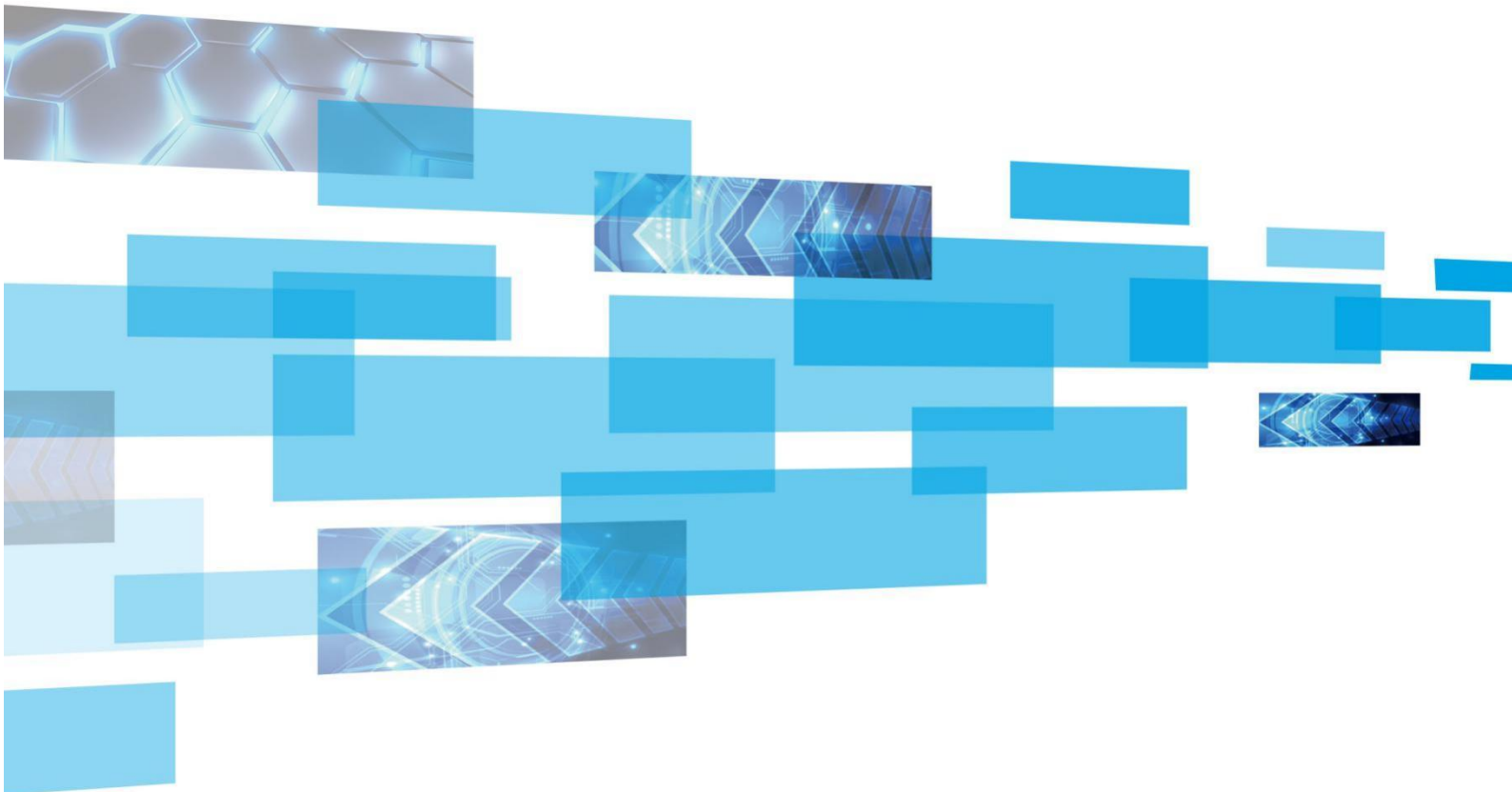


FPGA Receive Card D70-8



Product Datasheet

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	Details	Date
1	Ver.1.0	Initial	2022.01.10

Note: The document is subject to change without prior notice.

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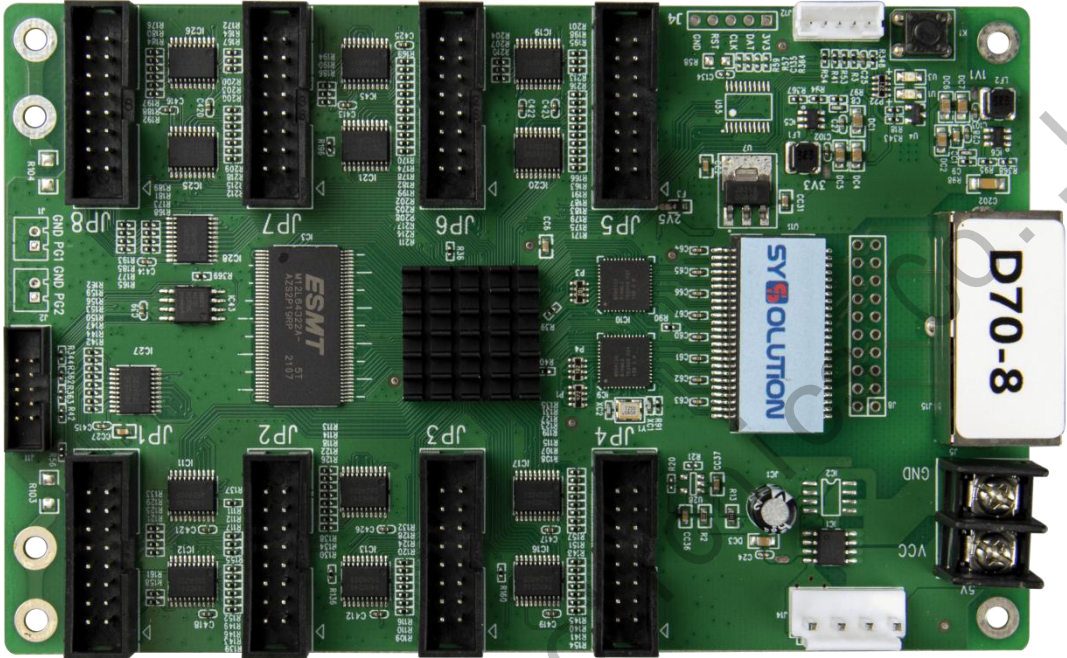
Product Introduction

D70-8 is a standard receiving card independently developed and launched by Xixun Technology. It adopts 8 standard HUB75E interfaces and supports up to 16 groups of RGB parallel data; The load capacity is up to 256X512 pixels; It has strong processing capacity, super stable performance and high cost performance.

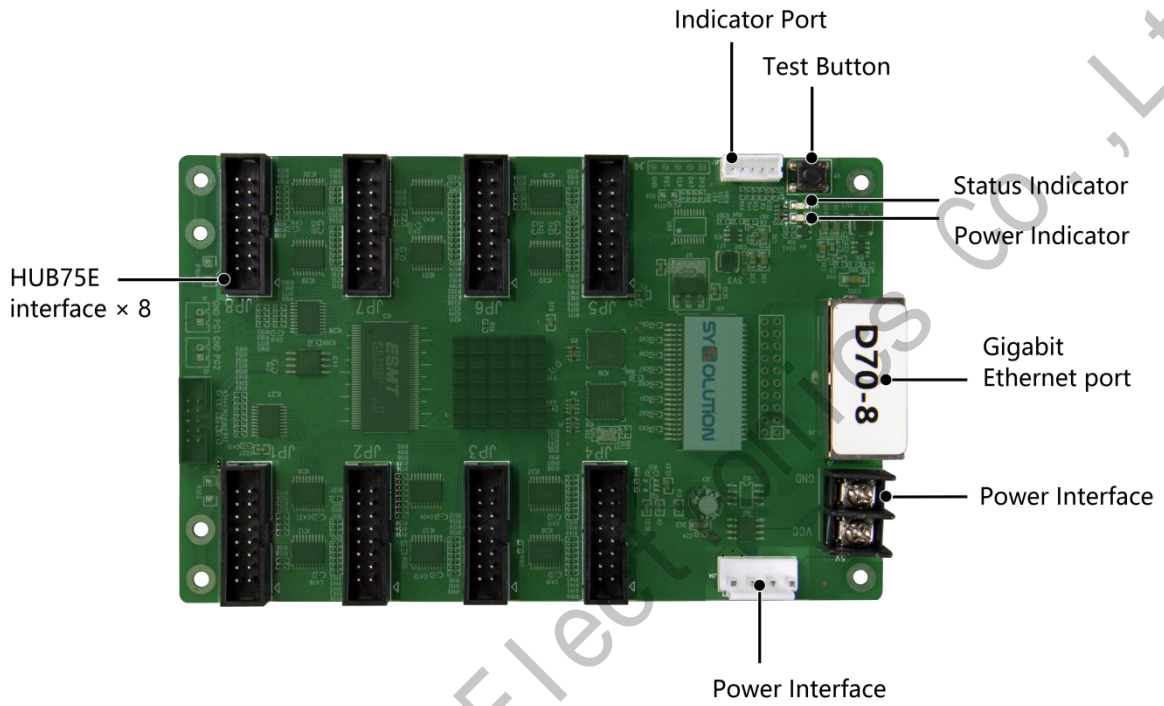
Application Scenarios

It can be widely used in high-end display fields with high requirements, and has significant advantages in application scenarios such as rental LED screens, TV live broadcasts, large-scale event LED screens, and high-end engineering channel projects.

Product Pictures



Interface Annotation



Load Capacity

Three parallel lines (RGB)	Maximum load (Pixel)	Brightness correction band load (Pixel)	Chromatic correction with load (Pixel)
16 group	512*256	512*256	512*160

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

Function Definition

Function	Instructions
Improve Display Effect	<ol style="list-style-type: none">1. Support multiple display effects schemes : With LedSet3.0 software to achieve refresh priority and grayscale priority effects.2. Support screen rotation by 90 degree times : With the LedSet3.0 software to realize, it can rotate the screen of the receiving card by 90 degree times.3. Support screen zoom function: With LedSet3.0 software, the receiving card pixels can be scaled by multiples, and the screen can be enlarged and reduced.
	<ol style="list-style-type: none">1. Support receiving card serial number detection: Cooperate with the network debugging function of LedSet3.0 software, the receiving card number and network port information will be displayed on the target box, and the user can obtain the location number and connection line of the

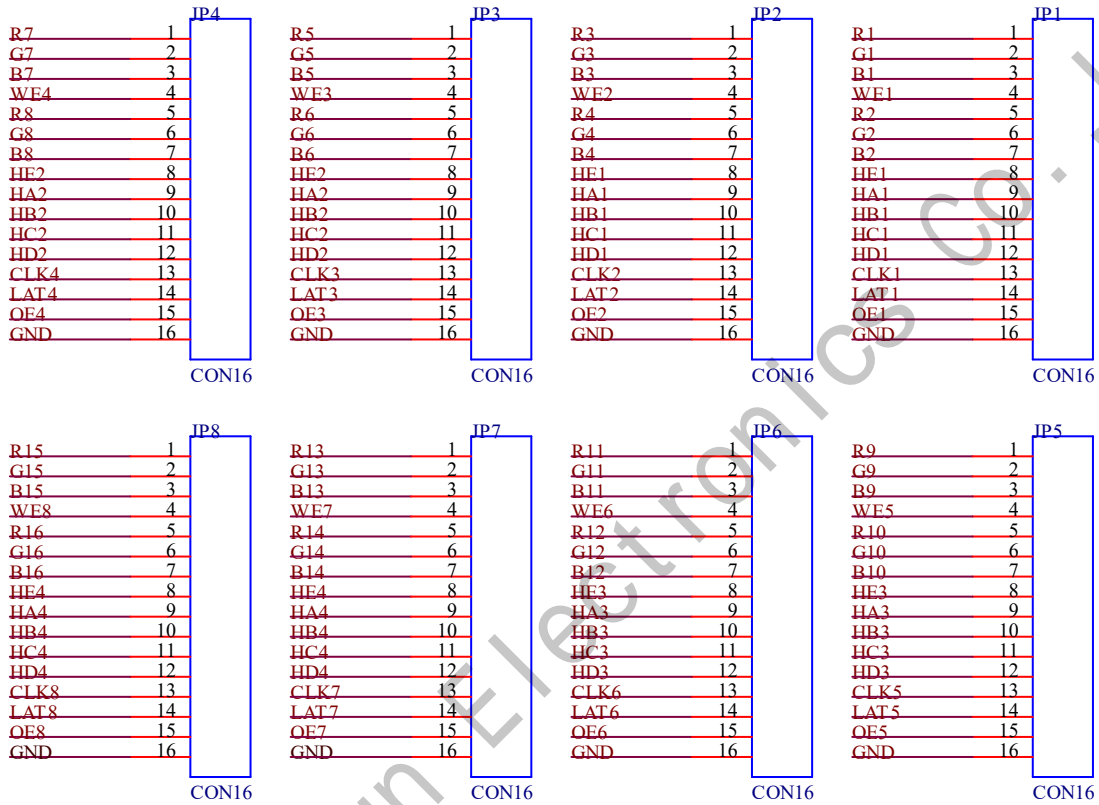
<p>Improve operation</p>	<p>receiving card.</p> <ol style="list-style-type: none"> Support data interface customization : With LedSet3.0 software, the output data of the receiving card can be detected and edited. Support the construction of complex cabinets: In the advanced layout of LedSet3.0 software, cabinet modules can be quickly arranged and constructed arbitrarily. Support the construction of complex large screen: in the complex display connection of LedSet3.0 software, the cabinet can be quickly arranged and constructed arbitrarily.
<p>Improve Hardware Stability</p>	<ol style="list-style-type: none"> Network cable loop backup: The network port is connected through the main and backup network cable loops to increase the reliability of receiving cards in series. In the main and standby series lines, when one of them fails, the other can ensure the normal display of the screen.
	<ol style="list-style-type: none"> Support receiving card configuration parameter read back: The current receiving card configuration parameters can be read back on

<p>Intelligent Software Upgrade</p>	<p>LedSet3.0.</p> <p>2. Support network cable bit error rate detection: LedSet3.0 can monitor the quality of the network cable communication signal connected to the system hardware in real time, so as to quickly judge the quality of the network cable and eliminate faults.</p> <p>3. Communication monitoring function: Real-time monitoring of the working status of the receiving card on LedSet3.0.</p>
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Output Interface Definition

16 Parallel Data Interface Definitions



JP1—JP8 Data Interface Definition

Definition	Pin	Pin	Definition
R	1	2	G
B	3	4	GND
R	5	6	G
B	7	8	GND
R	9	10	G
B	11	12	GND

R	13	14	G
B	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 Interface Definition

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

J11 Interface Definition

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

J12 Indicator Port Definition

Pin	1	2	3	4	5
Definition	GND/KEY-	KEY+	LEDR-	VCC/LED+	LEDG-

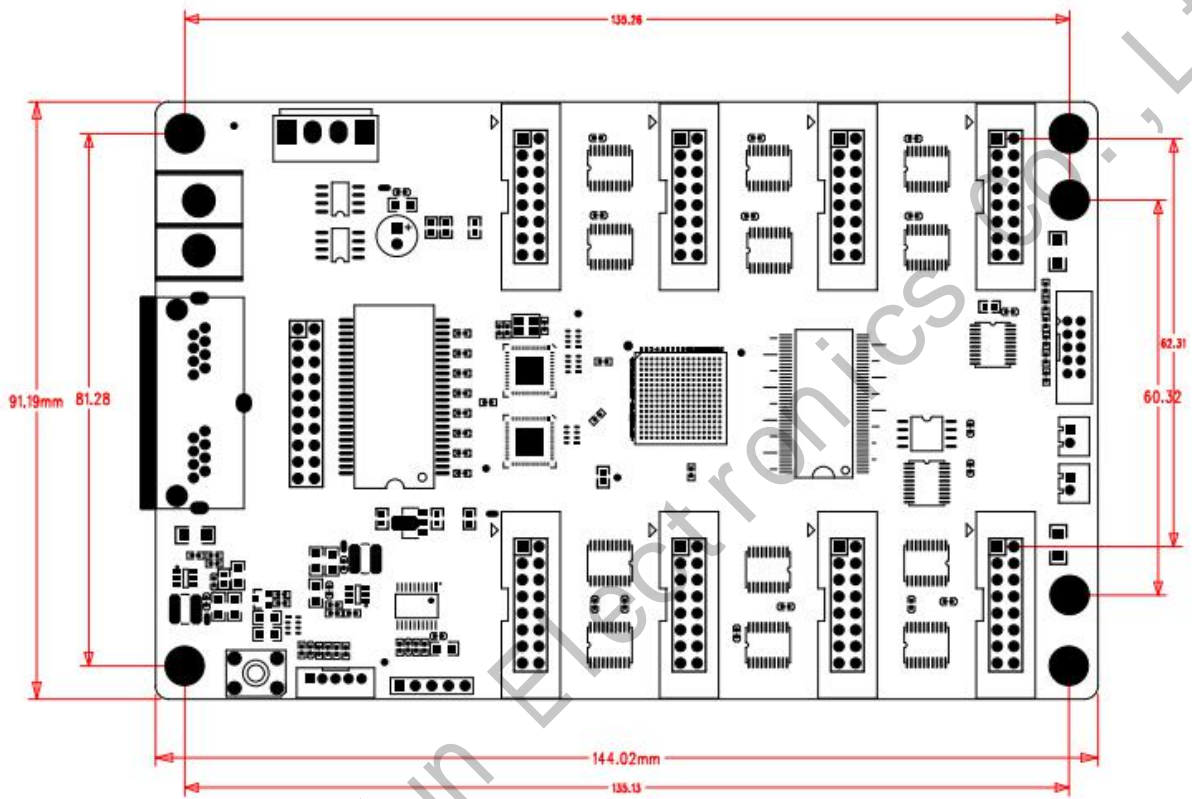
J13 Power Socket Definition

Pin	1	2	3	4
Definition	VCC	VCC	GND	GND

Indicator Description

Indicator	Location	State	Description
Status indicator (green)	U6	Flashes evenly and slowly	The receiving card works normally, the network cable is connected normally, and there is no DVI signal input.
		Flashes evenly and quickly	The receiving card works normally, the network cable is connected normally, and there is no DVI signal input.
		Off	No Gigabit network signal
		Flash 3 times at intervals	The receiving card works normally, the network cable loop is connected, and there is DVI signal input.
Status indicator (red)	U5	On	Normal power supply

Dimensions



Unit: mm

Working Parameters

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	Temperature	-25°C ~ 125°C
Board size	144.02mmX91.19mm	
Net weight	82.1g	
Certification Information	RoHS , CE-EMC	

Note

1. The installation process must be completed by professionals.
2. Must prevent static electricity.
3. Please pay attention to waterproof and dust removal.



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