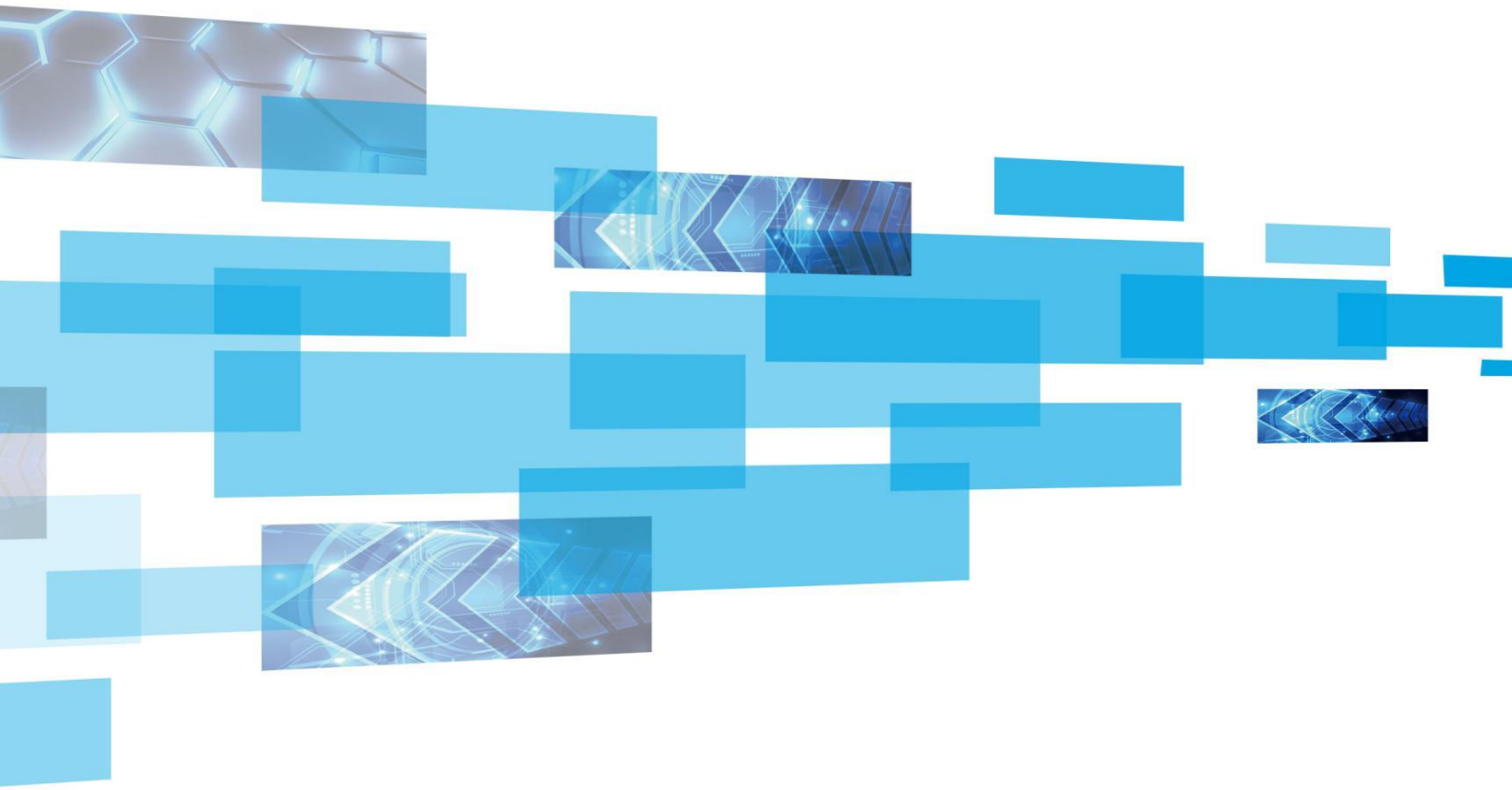
SYSOLUTION

FPGA Receiving Card

D60-8



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.

Copyright

The copyright of this document belongs to Xixun Technology. Without the written permission of our company, no unit or individual may copy or extract the content of this article in any form.

Trademark

is a registered trademark of Xixun Technology.

Certificate

It has certificates in the below:

1. CE、ROHS、FCC、iLAC-MRA、CNAS、APPLUS、Accrtdited Laboratory、Functions Test Report;
2. The information release platform has passed the third-level filing certificate of information system security of the Ministry of Public Security
3. The material of the platform has passed the registration certificate of the license for information network transmission of audio-visual programs;
4. Get Stable and qualified product certificate through national quality inspection

If the product does not have the relevant certification of the country or region to which it is sold, please contact the relevant personnel of Hisense Technology for confirmation or treatment at the first time. Otherwise, if the relevant legal risk is caused, the customer shall bear it or Hisense Technology has the right to recover.

Update Record

NO.	Version No.	Upadates	Revision Date
1	Ver.1.0	Initial issue	2023.03.09

The document is subject to change without prior notice.

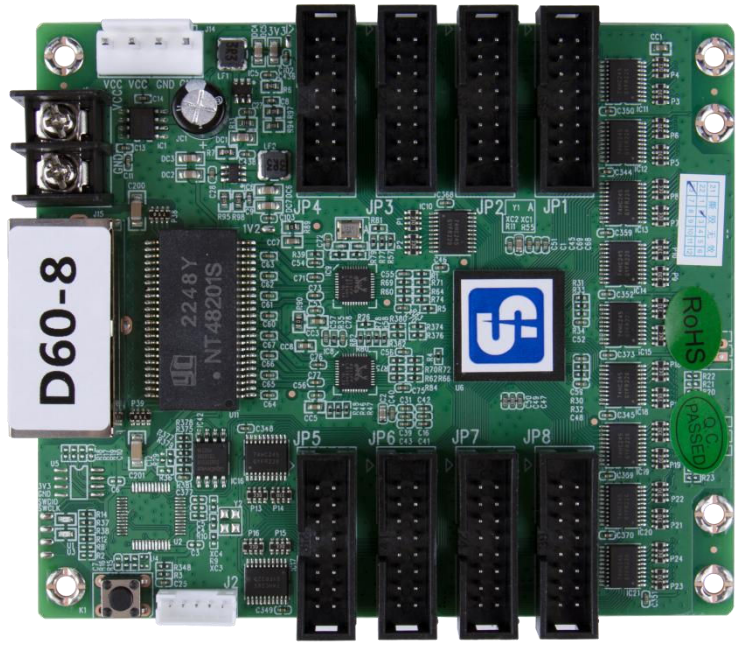
Product Introduction

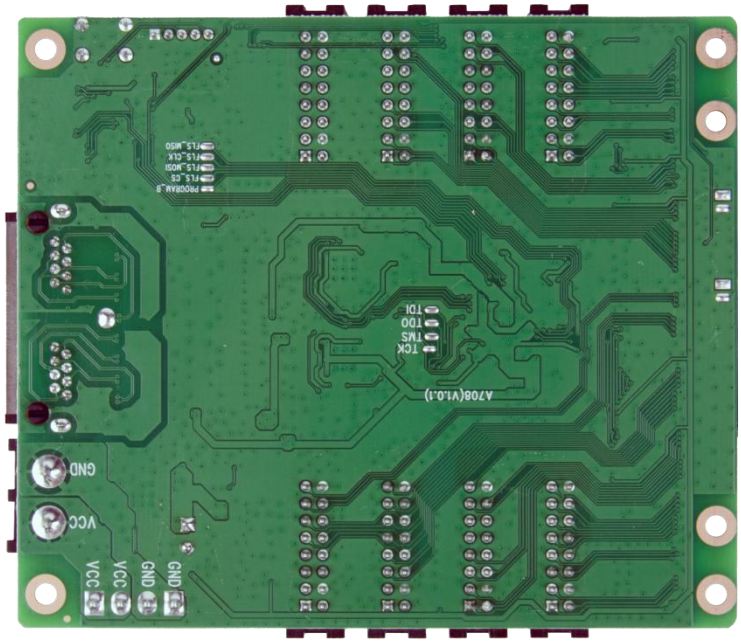
The D60-8 is a standard receiver card from Sysolution with 8 standard HUB75E interfaces, supporting up to 16 groups of RGB parallel data and carrying up to 256X512 pixels, with powerful processing power, ultra-stable performance and super high cost performance.

Application Scenarios

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

Product Appearance





Load Capacity

Three lines parallelism （RGB）	Max. load (pixels)	）Brightness correction loading (pixels)	Chromaticity correction loading (pixels)
16 groups	512*256	512*256	512*160

Number of cascade cards	Support for scanning lines		
≤1000PCS	1-64 扫 1-64 scan		

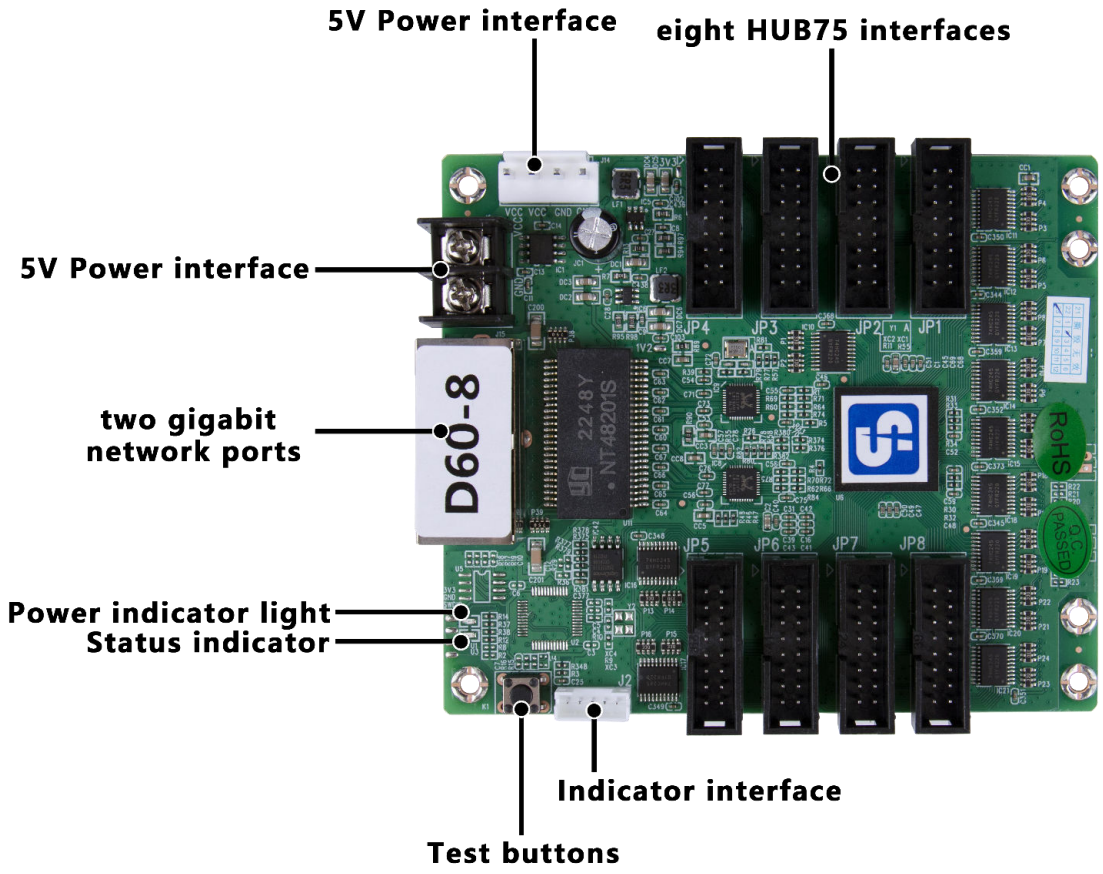
Function Characteristic

Funtion	Description
Display effect improvement	1. Support point-by-point brightness and chromaticity correction: with the correction software, the brightness and chromaticity of each light point of the large screen can be corrected to effectively eliminate chromatic aberration so that the brightness and chromaticity of the display can reach a high degree of consistency and improve the picture quality of the display. 2. Support a variety of display effect solutions: with LedSet4.0 software to achieve refresh priority and grayscale priority effect. 3. Support screen 90° times rotation: with LedSet4.0 software, you can rotate the receiving card screen 90° times. 4. Support screen scaling function: with LedSet4.0 software, the pixels on the receiver card can be scaled in multiples to achieve the enlargement

	and reduction of the display screen.
Operability improvement	1. Support receiving card serial number detection: with the network port debugging function in LedSet4.0 software, the receiving card number and network port information will be displayed on the target box, and users can be informed of the location serial number and connection line of the receiving card. 2. Support data interface customization: with LedSet4.0 software, the output data of the receiver card can be detected and editable. 3. Support for constructing complex boxes: In the advanced layout of LedSet4.0 software, you can quickly arrange and construct any box module. 4. Support the construction of complex large screen: In the complex display connection of LedSet4.0 software, the box can be quickly arranged and constructed arbitrarily.
Hardware Stability	1. Network Loop Backup: The network port is connected by a main and backup network loop to increase the reliability of the receiving card serial connection. When one of the main and

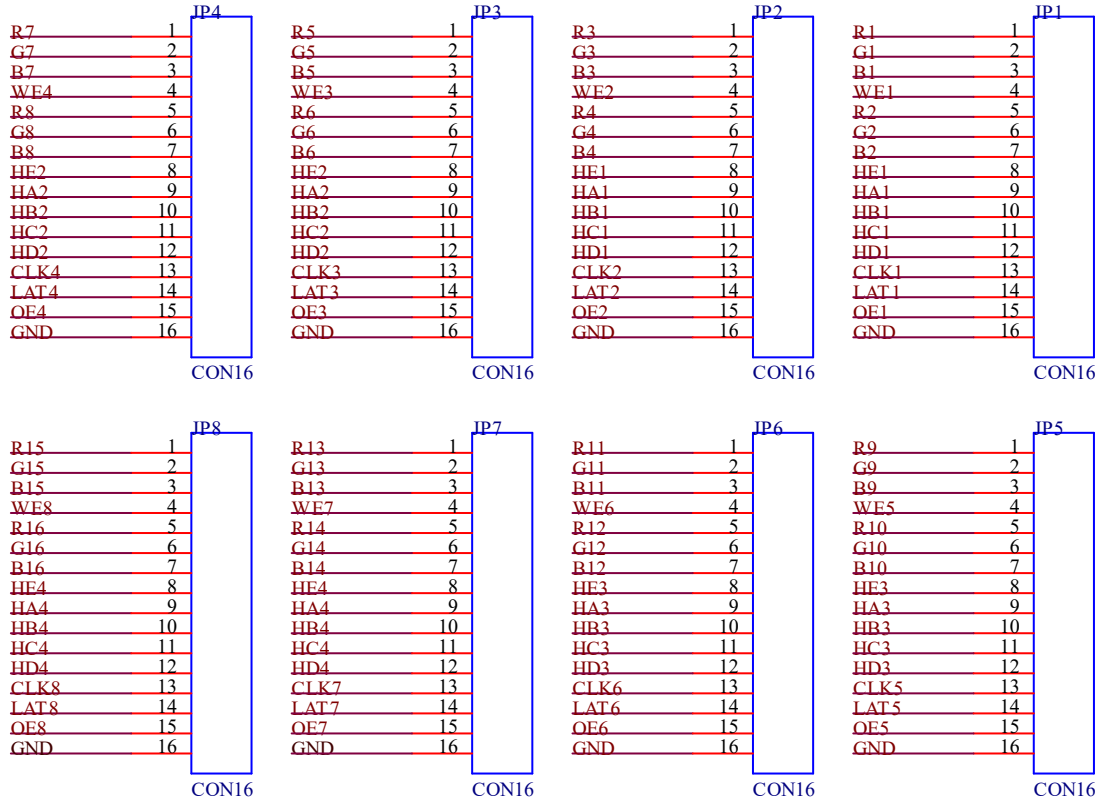
	backup serial lines fails, the other one can ensure the normal display of the screen.
Software Intelligence	1. 。Support for reading back the configuration parameters of the receiving card: on LedSet 4.0 you can read back the current configuration parameters of the receiving card. 2. Support network cable bit erro rate detection: The communication signal quality of the network cable connected to the system hardware can be monitored in real time on LedSet4.0 to quickly determine the good or bad network cable and troubleshoot. 3. Communication monitoring function: real-time monitoring of receiving card working status on LedSet4.0

Connection Diagram



Output Port Definition

32 groups of 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

J12 Definition

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

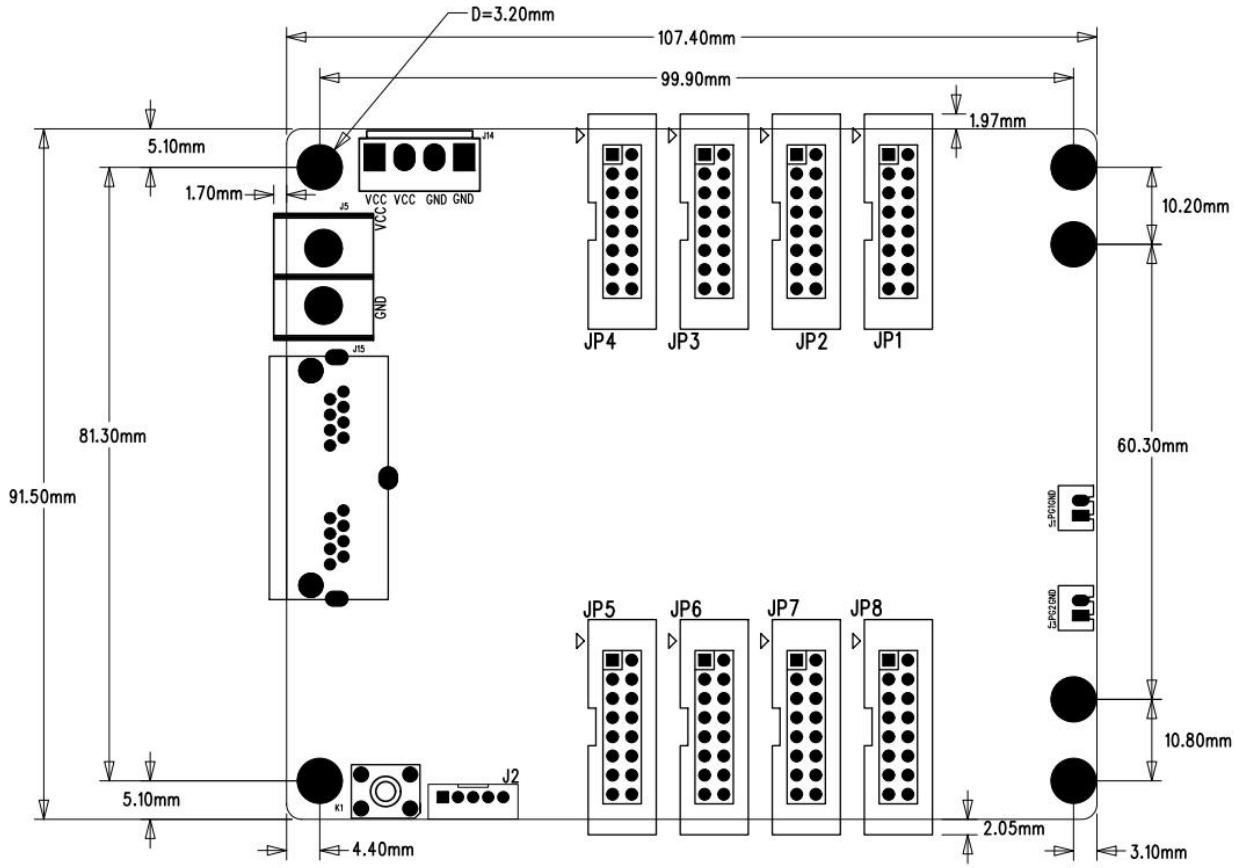
J14 power socket definition

Pin	1	2	3	4
Definition	VCC	VCC	GND	GND

Indicator Light Description

Indicator light	Place	Status	Description
Status Indicator (Green)	U3	Uniform slow flash	The receiver card works normally, the network cable is connected normally, and there is no DVI signal input.
		Uniform fast flash	The receiver card works normally, the network cable is connected normally, and there is DVI signal input
		black sceen	No gigabit network signal
		Intermittent fast flashing	The receiver card is working properly, the network cable loop is connected, and there is DVI signal input.
Status Indicator (Red)	U1	Ever Bright	Normal power supply

Dimension Drawing



Unit：mm

Working Parameters

Electrical parameters	Input Voltage	DC3.5-5.5V
	Rated current	0.6A
	Power Rating	3W
Working Environment	Operating temperature	-20℃ - 70℃
	Working humidity	10%RH-90%RH
Storage Environment	Temperature	-25℃～125℃
Board Card Dimensions	107.4mmX91.5mm	
Net weight	75g	
Certification Information	RoHS compliant, CE-EMC compliant	

Notes

1. The installation process must be done by professionals.
2. Must be anti-static.
3. Please pay attention to waterproof and dust removal.