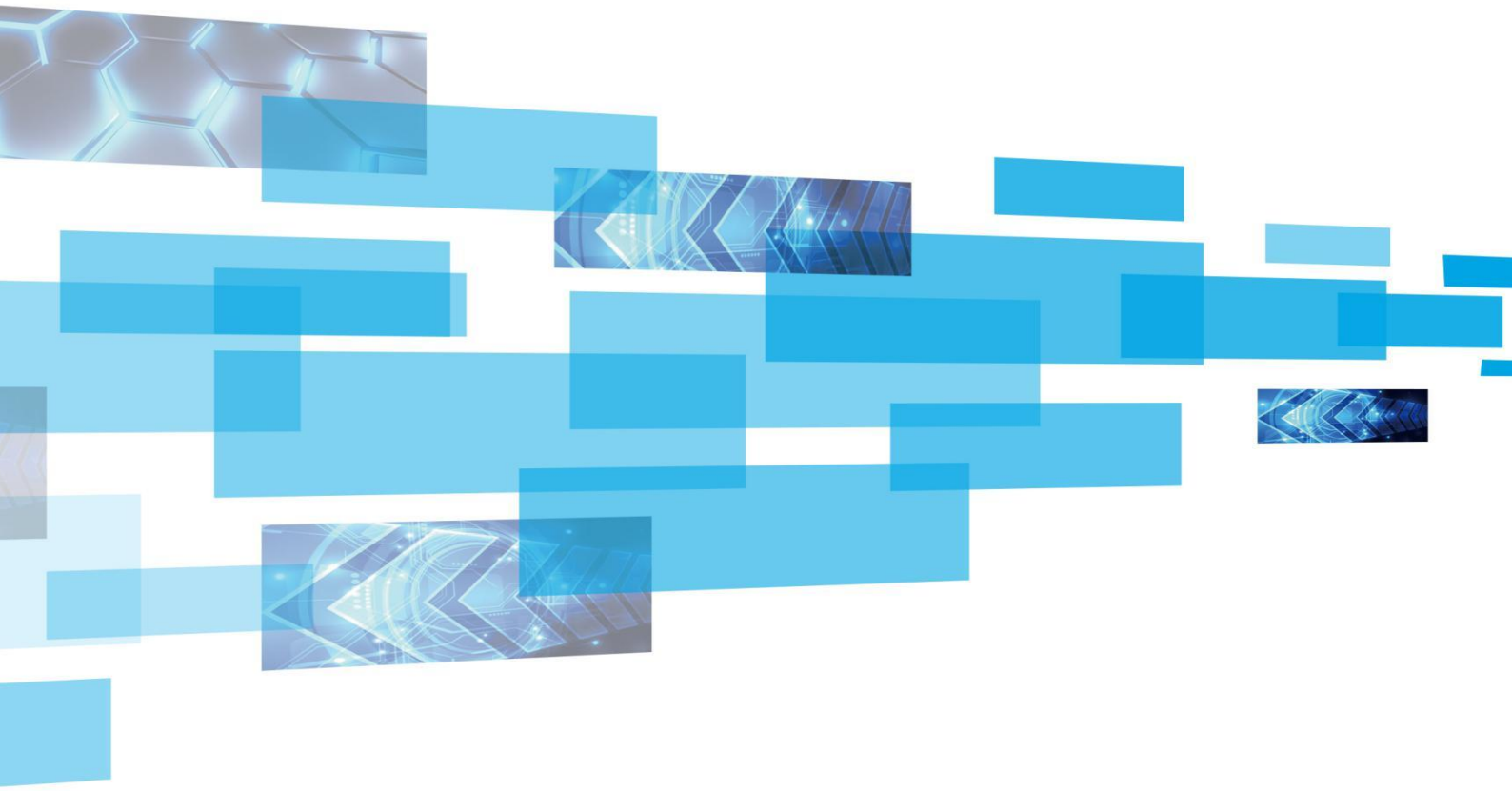
SYSOLUTION

FPGA Receiving Card

D60-16



Product Specification

Version：Ver.1.1

Statement

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Update Record

NO.	Version No.	Upadates	Revision Date
1	Ver.1.0	Initial issue	2022.11.09
2	Ver.1.1	Update with load	2024.06.14

The document is subject to change without prior notice.

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Product Introduction

The D60-16 is a standard receiver card launched by Shenzhen Sysolution Company. Featuring 16 standard HUB75E interfaces, supporting up to 32 groups of RGB parallel data and carrying up to 250,000 pixels, it has powerful processing capability, ultra-stable performance and super high cost performance.

Applicable scenes

It can be widely used in the field of high-density small-pitch display, and has significant advantages in the applicable scenes of command center, monitoring center, large conference, live TV station, hotel exhibition project, etc.

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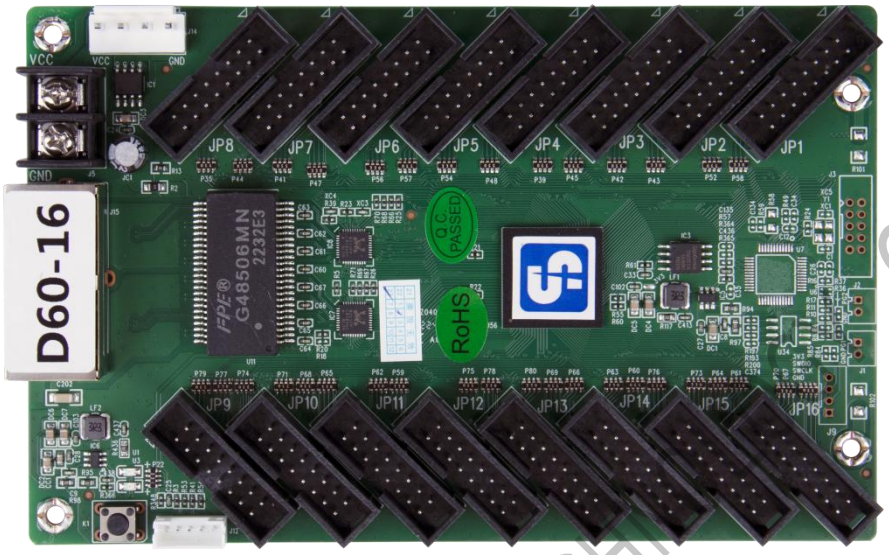
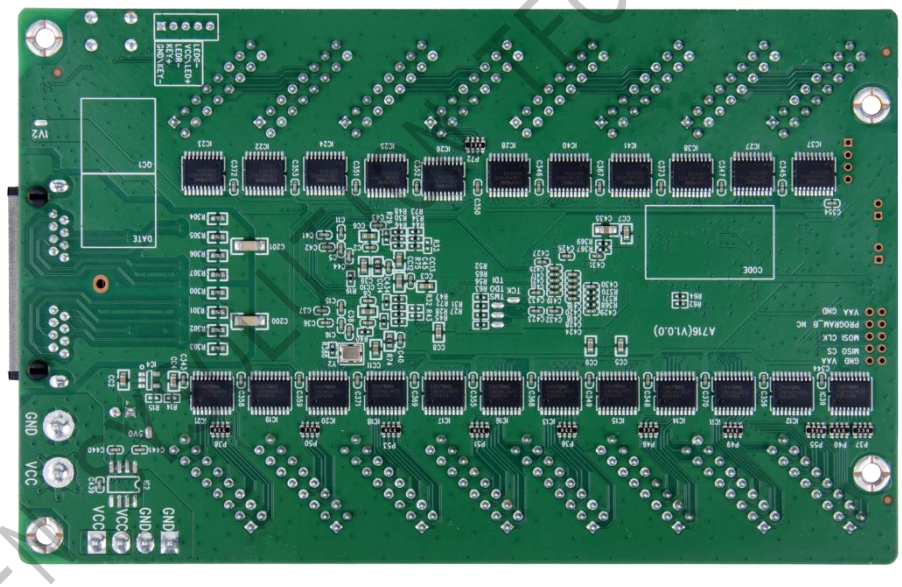
Product Image





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Loading Capacity

<table>
<tr><td rowspan="2">Three lines parallelism (RGB)</td><td rowspan="2">Data interface/number</td><td rowspan="2">Maximum loading (Pixels)</td><td colspan="2">Recommended with load(Pixels)</td></tr>
<tr><td>Module model</td><td>Load</td></tr>
<tr><td rowspan="6">32 groups</td><td rowspan="6">HUB75E/16</td><td rowspan="3">250,000</td><td rowspan="2">P3 and above</td><td>2 W 16 H</td></tr>
<tr><td>128x1024</td></tr>
<tr><td rowspan="2">P2.5-P2-P1.86-P1.536</td><td>2W8H</td></tr>
<tr><td rowspan="3">512x512</td><td>256x512 (Take P2.5 as an example)</td></tr>
<tr><td rowspan="2">P1.25</td><td>1W8H</td></tr>
<tr><td>256x1024</td></tr>
</table>

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

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Function Definition

Function	Description
Improved display effect	1. Support point-by-point brightness and chroma correction: with the correction software, the brightness and chroma of each lamp point of the large screen can be corrected to effectively eliminate color difference so that the brightness and chroma 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 90° multiples of screen rotation: with LedSet4.0 software, it can rotate 90° multiples of the receiving card screen. 4. Support screen scaling function: with LedSet4.0 software, the pixels carried on the receiver card can be scaled in multiples to achieve the enlargement and reduction of the display screen.

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Upgraded operability	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 receiving card location serial number and connection line. 2. Support data interface customization: with LedSet4.0 software, the output data of the receiver card can be detected and editable. 3. Support the construction of complex boxes: In the advanced layout of LedSet4.0 software, you can quickly make any arrangement and construction of box modules. 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 Circuit backup: The network port is connected by the main and backup network circuit to increase the reliability of the receiving card serial connection. When one of the main

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	and backup serial lines fails, the other one can ensure the normal display of the screen.
Software Intelligence	1. Support reading back the configuration parameters of the receiving card: you can read back the current receiving card configuration parameters on LedSet4.0. 2. Support network cable BER(Bit Error Rate) detection: on LedSet4.0, the communication signal quality of the network cable connected to the system hardware can be monitored in real time, so as to quickly determine the network cable and troubleshoot. 3. Communication monitoring function: real-time monitoring of receiving card working status on LedSet4.0.

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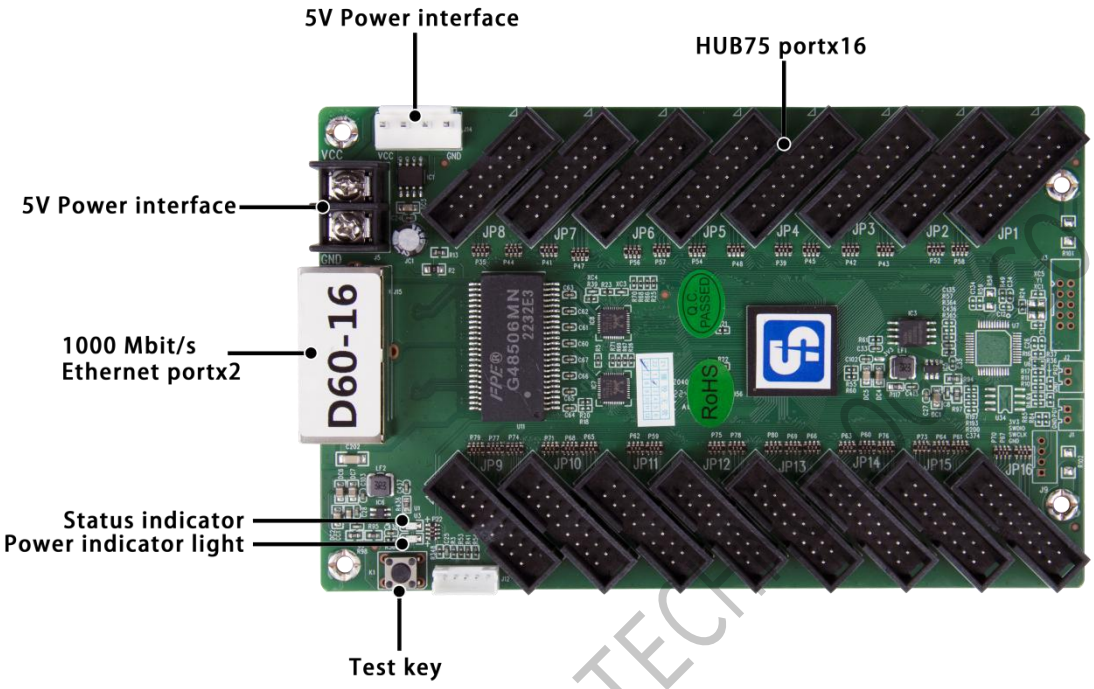
Interface Annotation



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Output Port Definition

32 groups of parallel data interface definitions

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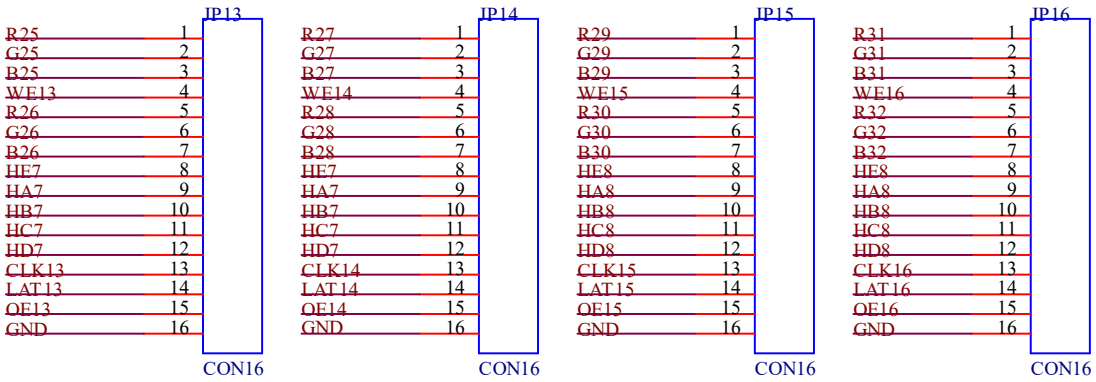

JP1-JP16 data interface definitions

Pin	1	3	5	7	9	11	13	15
Definition	R0	B0	R1	B1	A	C	CLK	OE
Pin	2	4	6	8	10	12	14	16
Definition	G0	GND	G1	E	B	D	LAT	GND

J12 definitions

Pin	1	2	3	4	5
Definition	GND\KEY-	KEY+	LEDR-	3V3\LED+	LEDG-

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Indicator Description

Indicator	Position	Status	Description
Status Indicator (Green)	U1	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.

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		Black Screen	No gigabit network signal
		Intermittent flash 3 times	The receiver card is working normally, the network cable circuit is connected, and there is DVI signal input.
Status Indicator (Red)	U3	Ever Bright	Power supply is normal

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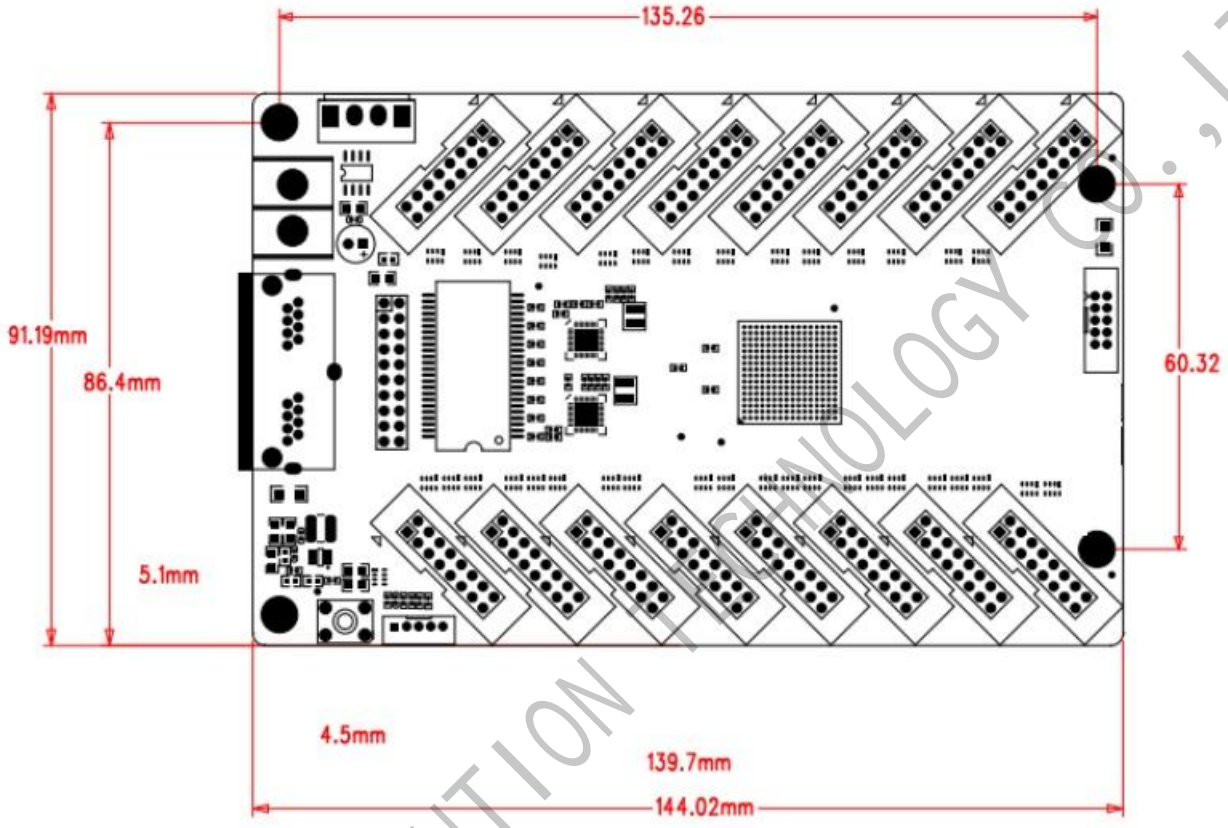
Size



Unit：mm

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Working Parameters

Electric parameter	Input Voltage	DC3.5-5.5V
	Rated current	0.6A
	Rated power	3W
Working Environment	Working temperature	-20℃ - 70℃
	Working humidity	10%RH-90%RH
Storage Environment	Temperature	-25℃ ~ 125℃
Board Card Size	144.02mmX91.19mm	
Net Weight	100.8g	
Certification Information	RoHS compliant, CE-EMC compliant	

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Warnings

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

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