R12

LED Receiving series

Version: v2.3

Release date: October 2022

Specification

KYSTAR

TEL 400 159 0808

Web:www.kystar.com.cn

Beijing KYSTAR Technology Co., Ltd.

Professional Ultra HD Video Display
Control system integrated solution and service provider

Version record

version number	change details	release time
V1.0	first edition released	2021.06.12
V2.1	Modify document device description	2021.07.08
V2.2	edit cover	2021.10.25
V2.3	Change device parameters	2022.12.25
	Note: The specification may subject to change without prior notice.	

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To: Department of Culture and Information of Ninh Binh city, Ninh Binh province
Add: No. 33, Le Dai Hanh Street, Thanh Binh Ward, Ninh Binh City, Ninh Binh Province
Tender name "Package No. 03: Procurement and installation of equipment"

1   product description

1.1   Applications

The R12 receiving card is a receiving device for displaying data in the control system of the LED

display screen, which is used to convert the received data into the control signal of the module.
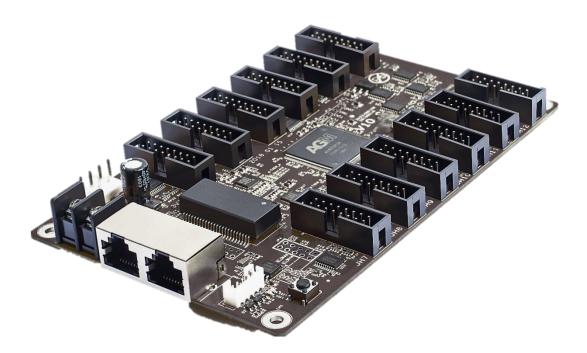
1.2   Functional characteristics

- Every card 12 standard interfaces, output 24 groups of RGB data. Manageability: $\geq$ 1024x256 pixels.
- Support a variety of common chips, PWM chips, dual latch chips.
- The unique arbitrary frequency doubling technology free your cellphone from scanning line.
- Unique color conversion technology to present.
- Supports high gray, high refresh, low brightness and high gray display.
- Perfect detail processing can eliminate some problems such as dark, when low grey is red, ghost and so on.
- Support pixel-by-pixel brightness and chroma correction, provide low-gray compensation for correction, and ensure low-gray effect.
- Support one-click read-back configuration file information function.
- One key repair function, change cards without worry.
- Real-time detection of network communication status and detection of network connection sequence supported.
- Arbitrary drawing point support, easy to set up all kinds of special-shaped LED screen
- Program upgrade;Strong anti-interference ability;No fear of power break.
- Supports image standards: 16:9, 4:3. Image support: PNG, JPG, JPEG, BMP... Video support: AVI, MP4, MPEG....
- Supports quick upload of correction factors;
- Official control and independent support functions 3D function, when starting the 3D function in the software main monitor or control panel of the thing Independent main control and 3D parameters settings display 3D effect on the screen.
- K-HDR function, support optimization technology SDR image to HDR, resolution can be improved Contrast of conventional, enhanced SDR video High performance detailed imaging and video rendering usually with HDR effect
- Support cloud internet remote control
- Synchronous control system

2   Appearance

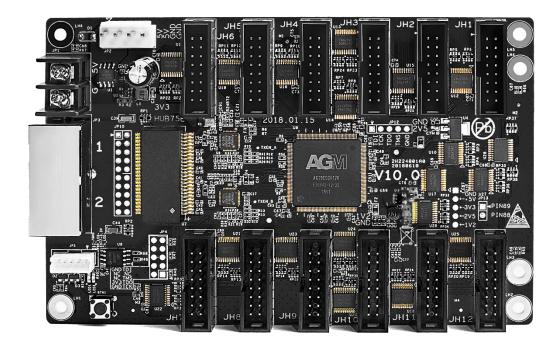## 3   Interface signal definition

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3.1 12 pcs 16P standard HUB75 interface (JH1-JH12)

It is defined as follows:

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

Description: E signal can be used as blanking control foot when the screen scan is less than 16, and E signal when the screen scan is larger than 16.

3.2 Indicator light holder (JP5)

Pipe pins are defined as follows:

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1	2	3	4	5
STA_LED	LED+/+3.3V	PWR_LED-	KEY+	KEY-/GND

4 Indicator status description

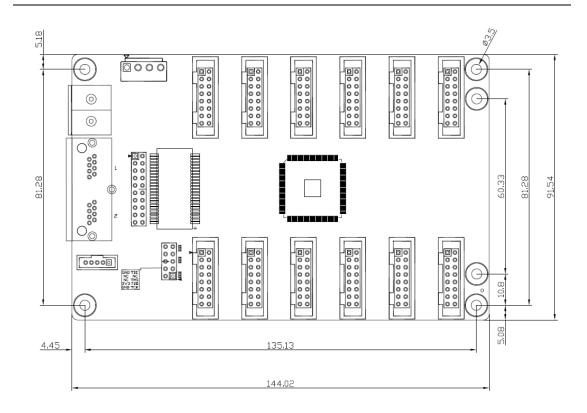| Indicator status	
LED1	The power indicator is red and always on, indicating that the power supply is normal and out. Representatives are not on power.
LED2	Equipment operation indicator is green, flashing when signal is input, not bright or always bright when no signal is input.

5 Electrical parameters

Project	parameter value
Rated voltage	DC 3.5V-6V
rated current	0.6A - 1.0A
Working temperature	-10℃- 70℃
Working humidity	0% - 95%

6 Dimensions

Unit mm

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