

# G628C

## LED receiver series

Version: v2.2

Release Date: October 2023



## Specifications



TEL 400 159 0808  
Web: [www.kystar.com.cn](http://www.kystar.com.cn)

**Beijing KYSTAR Technology Co., Ltd.**

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

## Version history

The version number	Change details	Publish time
V1.0	The first version was released	2021. 06.12
V2.1	Modify the document device description	2022. 07.08
V2.2	Modify the cover page	2023. 10.25

## 1 Product overview

### 1.1 Product application

G628C receiving card is a receiving device that displays data in the LED display control system, which is used to convert the received data into the control signal of the module.

### 1.2 Features

- A single card has 8 standard HUB320 interfaces and outputs 32 sets of RGB data.
- Using 18 bit decode process.
- The maximum load of a single card is 512×512 pixels.
- Support a variety of general-purpose chips, PWM chips, dual latch chips.
- Unique arbitrary frequency doubling technology, the phone shoots without scanning lines.
- Unique color transformation technology makes the face complexion more realistic.
- Support high gray, high brush, low brightness high grayscale display.
- The details are handled perfectly to eliminate problems such as dark, low gray and red, ghosting and so on.
- Supports point-by-point correction of brightness and chromaticity, provides correction of low gray compensation, and ensures low gray effect.
- Support one-click read back profile information function.
- Support one-click repair function, card replacement worry-free.
- Supports real-time detection of network communication status and detection of network cable connection sequence.
- Support any extraction point, easy to set up a variety of special-shaped screens.
- Program write protection, upgrade power failure worry-free.

## 2 Product appearance

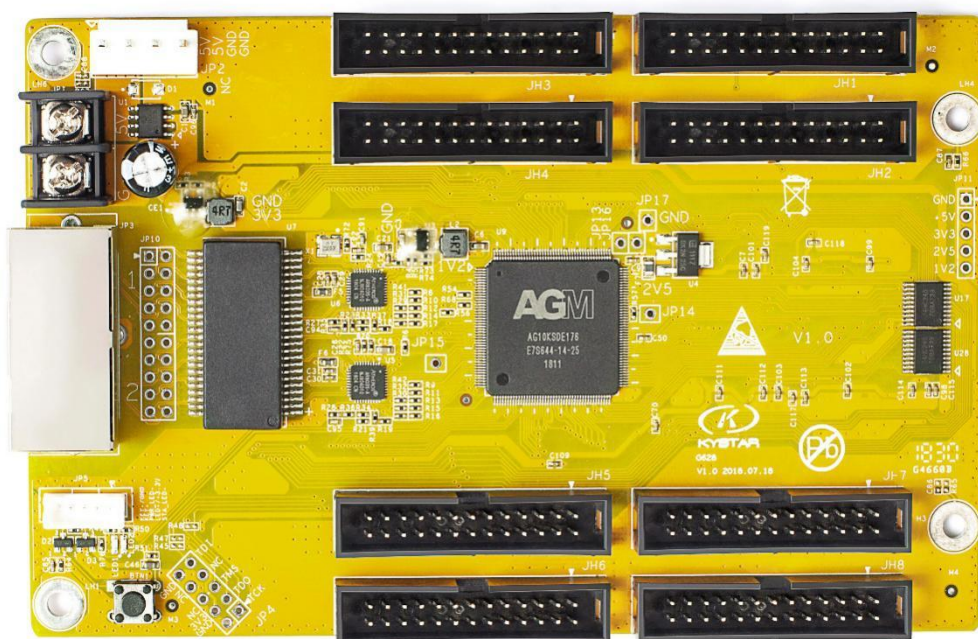


Figure 1. G628C Receiving card

## 3 Interface signal definition

### 3.1 8 HUB320 interfaces (JH1-JH8) of the 26P standard

The definitions are as follows:

Pins	definition	Pins	definition
1	R1	2	G1
3	B1	4	GND
5	R2	6	G2
7	B2	8	GND
9	R3	10	G3
11	B3	12	GND
13	R4	14	G4
15	B4	16	GND

17	A	18	B
19	C	20	D
21	E	22	GND
23	CLK	24	LE
25	OE	26	GND

Description: The E signal, which can be used as a blanking control pin when the display scan is less than 16 sweeps.

Greater than 16 sweeps as an E signal.

### 3.2 Indicator stand (JP5).

The pins are defined as follows:

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

## 4 Description of the LED status

LED status	
LED1	The power indicator is red, and the solid light indicates that the power supply is normal and goes off The delegate is not powered on
LED2	The device operation indicator is green, flashes when there is a signal input, and is not lit or solid when there is no signal

## 5 Electrical parameters

Item	The parameter value
Rated voltage	DC 5V
Rated current	0.6A - 1.0A
Operating temperature	-10°C - 70°C
Operating humidity	0% - 95%
Carrying pixel capacity	512×512

## 6 Dimensional drawings

Unit mm

