

G628

LED receiver series

Version: v2.2

Release Date: October 2021



Specifications



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 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 | 2021. 07.08 |
| V2.2 | Modify the cover page | 2021.10.25 |
| | | |

1 Product overview

1.1 Product application

G628 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 interfaces and outputs 32 sets of RGB data.
- 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 G628 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

| project | The parameter value |
|-----------------------|---------------------|
| Rated voltage | DC 3.5V-6V |
| Rated current | 0.6A - 1.0A |
| Operating temperature | -10°C - 70°C |
| Operating humidity | 0% - 95% |

6 Dimensional drawings

Unit mm

