

i5A-F Dual-mode Card

Overview

i5A-F is a dual-mode card which makes both synchronous and asynchronous

system available and the two modes can be seamlessly switched.

i5A-F helps to greatly improve the display effect, higher refresh rate, color input, it helps to realize more dedicate image and more stable screen.



Features

- i5A-F is a dual-mode card which makes both synchronous and asynchronous system available and the two modes can be seamlessly switched.
- i5A-F helps to greatly improve the display effect, higher refresh rate, color input, it helps to realize more dedicate image and more stable screen.
- Support brightness and chromaticity calibration
- Support normal chip, PWM, lighting chip
- Support any scan mode from static to 1/32 scan
- Support various freeform display, spherical display, diamond display, creative display, etc.
- Support signal output for 16 groups of RGBR' and 20 groups of RGB, 32 groups as extended
- Wide working voltage range with DC3.3 6V
- Compatible with iT7, iQ7, iQ7E,gigabit NIC, etc.

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Specifications

| Control system para | meters | | | |
|--|---|--|--|--|
| Sending device | iT7 Sender , iQ7 HD Sender, iQ7E UHD Sender, Gigabit NIC, C1 Series Sender, T8 , etc. | | | |
| Control area of every card | Full-color: 256*256 Pixels, for special applications the column can be extended to 1024 pixels. | | | |
| Cascade control area of the largest regional | 65536*65536 pixels | | | |
| Cascade card number | 65536 PCS | | | |
| Network port exchange | support | | | |
| Synchronization | Nanosecond synchronization between the card and the card | | | |
| Display Quality | | | | |
| Refresh rate for | Static: 64*64, up to 16000Hz | | | |
| conventional chip | 1/8 scan: 128*128, up to 10000Hz | | | |
| Serial frequency | 0.2MHz-41.7MHz | | | |
| Gradation | 65536 | | | |
| Minimum unit of OE values | 8ns, 8ns multiples steps | | | |
| Gray scale compensation | Each level grayscale separate compensation | | | |
| Display module compatibility | | | | |
| Chip supports | supports Support conventional chips, PWM chips, lighting chips and other mainstream chips. | | | |
| PWM chip supports | M chip supports Support hundreds of different specifications of the PWM chip, such as MBI5042 (requires a separate program) | | | |
| Scan mode | Two scanning methods to support refresh rate multiplier | | | |
| Scan type | Support static sweep to 1/32 scan | | | |
| module specifications Support | Support 4096 pixels within any row, any column | | | |
| The direction of the cable | ection of the cable Support route from left to right, from right to left, from top to bottom, from bottom to top. | | | |
| Data Sets | 16 RGB data sets | | | |
| Data folded | Support to the fold, reverse fold, with the already discounted, such as refresh rate significantly improved. | | | |



| Data exchange | 16 sets of data any exchange | | | |
|--|--|--|--|--|
| Module snapshot | Support any pumping point | | | |
| Data serial transmission | RGB, R8G8B8, R16G16B16, etc. in the form of serial | | | |
| Data Expansion | Support the D signal as a clock extension, the total amount of data can | | | |
| | be extended to 32. | | | |
| Compatible device a | ind interface type | | | |
| | UTP cable≤140M | | | |
| Communication distance | CAT6 cable≤170M | | | |
| | OPTIC FIBER transmission distance unrestricted | | | |
| Compatible with transmission equipment | Gigabit switch, fiber transceiver, optical switches. | | | |
| power interface | Wire terminal | | | |
| HUB Interface Type | All types | | | |
| Physical parameters | Physical parameters | | | |
| Size | 143* 93mm | | | |
| Input voltage | DC 3.3V-6V | | | |
| Rated current | 0.6A | | | |
| Rated power | 3W | | | |
| Storage and transport temperature | -50°C to 125°C | | | |
| Operating Temperature | -25°C to 85°C | | | |
| Body static resistance | ce 2KV | | | |
| Weight | 100g | | | |
| Cabinet level overall monitoring (in conjunction with monitoring module) | | | | |
| Monitoring functions | Temperature, humidity, smoke, etc. | | | |
| Intelligent | In exceptional cases ,monitoring module can automatically trigger | | | |
| emergency treatment | relay switch to turn off the power or alarm | | | |
| LCD display | support | | | |
| Monitoring function (in conjunction with multi-function card) | | | | |
| Monitoring functions | Temperature, humidity, smoke, relay switch | | | |
| Remote control | note control Support for relay switch to turn on/off the power supply of equipments remotely | | | |



pixels level calibration

| • | | |
|---|----------------------|--|
| Brightness calibration | Support | |
| Chromaticity calibration | Support | |
| Other features | | |
| Onboard memory | 2G | |
| Double backup | ouble backup Support | |
| Shaped screen Any offset of the 16sets of data, drawn at random points, the performance of data exchange control profiled screen. | | |



Hardware



1, interface function

| S/N | Name | Function | Remarks |
|-----|-------------------------|---|---|
| 1 | Power 1 | Connect DC5V power supply for the receiver card | |
| 2 | Power 2 | Connect DC5V power supply for the receiver card | Only one is used |
| 3 | Indicate lamp | Indicate power and signal transmission status | red for power, green for signal |
| 4 | Network port A | RJ45,For transmitting data signals | The dual network ports can achieve import/export |
| 5 | Network port B | RJ45,For transmitting data signals | at random, which can be identified in an intelligent way by the system. |
| 6 | monitoring interface | Connect to the monitoring expansion board | |
| 7 | LCD interface | Connect to the LCD display | |
| 8 | Dual 50P pins | Connected to all display HUB boards | |
| 9 | Test button | The attached test procedures can achieve four kinds of monochrome display (red, green, blue and white), | |



| Product | Specification |
|---------|---------------|
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| | | as well as horizontal, vertical and other display scan modes. | |
|----|---------------------|---|--|
| 10 | External interfaces | For Indicate lamp and test button | |

2、Indicator Light functions

Red: ON for power available

Green: ON/OFF quick flash (about 5-10 times/second) indicates that the data signal transmission is normal.

3、Definitions of 50P pins







2) 20 RGB mode (Extended mode1)





1.1 2014/05/18



3) 20 RGB mode (Extended mode2)



4、External interface definition





5, Figure for receiving card size and hole position



Unit : mm