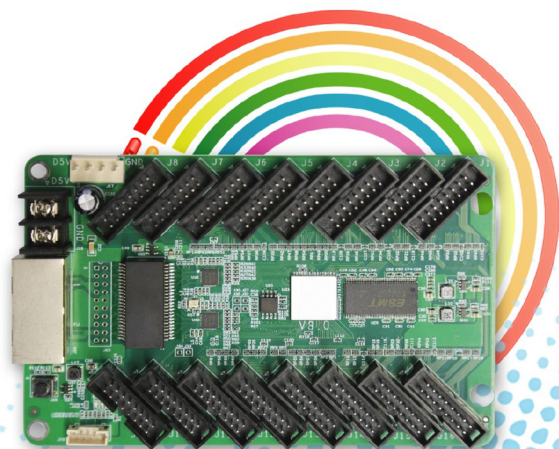


Receiving Card

Specifications

1/2



Features

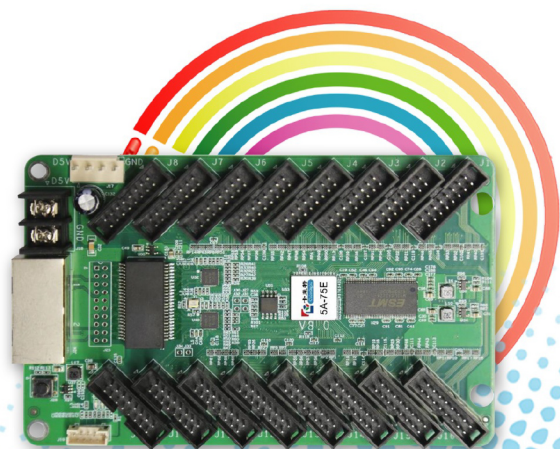
- Integrated HUB75 interface, more convenient with less cost
- Reduces the plug connectors and malfunction, lower failure rate
- Superior display quality: high refresh rate, high grayscale, and high brightness with the conventional chips
- Perfect performance under lower grayscale status
- Better detail processing: partial dark at row, reddish at low gray, shadow problems can be solved
- Supports high-precision pixel level calibration in the brightness and the chromaticity
- Supports conventional chips, PWM chips, Silan chips and lighting chips
- Supports up to 1/64 scan
- Supports any pumping point and data group offset to realize various freeform display, spherical display, creative display, etc.
- Supports any pumping point and pumping column
- Supports 32 groups of RGB signal output
- Large loading capacity
- Wide working voltage range with DC 3.3~5.5V
- Compatible with all series of Colorlight's sending devices

Model	HVL-5A-75E
Control Area	Full-color: conventional: 256 x 512 pixels, PWM: 384 x 256 pixels, Silan: 324 x 256 pixels
Calibration Area	conventional: 256 x 512 pixels, PWM: 384 x 256 pixels, Silan: 324 x 256 pixels
Network Port Exchange	Supported, arbitrary use
Synchronization	Nanosecond synchronization between cards
Display Module Compatibility	
Chip Supports	Supports conventional chips, PWM chips, Silan chips, lighting chips and other mainstream chips
Scan Type	Supports up to 1/64 scan
Module Specifications	Supports 8192 pixels within any row, any column
Cable Direction	Supports route from left to right, from right to left, from top to bottom, from bottom to top
Data Groups	32 groups of RGB data
Data Folded	Supports 2 splits and 4 splits in the same direction, and 2 splits in the opposite direction
Data Exchange	32 groups of data for any exchange
Module Pumping Point	Supported
Module Pumping Row	Supported
Module Pumping Column	Supported
Data Serial Transmission	Supports RGB, R16G16B16, etc. in the form of serial
Compatible Device and Interface Type	
Communication distance	UTP cable ≤ 140m CAT6 cable ≤ 170m Optic fiber: Single-Mode Fiber Converter ≤ 20km Multi-Mode Fiber Converter ≤ 550m (Use RP Repeater to extend unlimited)
Compatible with Transmission Equipment	Gigabit switch, fiber converter, optical switches
DC Power Interface	Wafer VH3.96mm-4P Barrier Terminal Block-8.25mm-2P
HUB Interface Type	HUB 75
Physical Parameters	
Size	143.64 x 91.69mm
Input Voltage	DC 3.3V~5.5V
Rated Current	0.6A
Rated Power	3W
Storage and Transport Temperature	-50℃ ~ 125℃
Operating Temperature	-25℃ ~ 75℃

Receiving Card

Specifications

2/2



Features

- Integrated HUB75 interface, more convenient with less cost
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- Supports up to 1/64 scan
- Supports any pumping point and data group offset to realize various freeform display, spherical display, creative display, etc.
- Supports any pumping point and pumping column
- Supports 32 groups of RGB signal output
- Large loading capacity
- Wide working voltage range with DC 3.3~5.5V
- Compatible with all series of Colorlight's sending devices

Model

HVL-5A-75E

Body Static Resistance	2KV
Weight	100g
Monitoring Function (in conjunction with multi-function card)	
Monitoring Functions	Real time monitoring of environment information like temperature, humidity and smoke
Remote Control	Supports for relay switch to turn on/off the power supply of equipment remotely
Other Features	
Pixel Level Calibration	Supported
Loop Backup	Supported
Shaped Screen	Supports various freeform display, spherical display, creative display, etc. through data group offset
Interface	
Power 1	Connect DC 3.3 ~ 5.5V power supply for the receiving card
Power 2	Connect DC 3.3 ~ 5.5V power supply for the receiving card
Network port A	RJ45, for transmitting data signals
Network port B	RJ45, for transmitting data signals
Test button	The attached test procedures can achieve four kinds of monochrome display (red, green, blue and white), as well as horizontal, vertical and other display scan modes
Power indicator light	Red indicator light shows that the power supply is normal.
Signal indicator light	
Flashes once per second	Receiving card: normal working, Network cable connection: normal
Flashes 10 times per second	Receiving card: normal working, Cabinet: Sorting & Highlight
Flashes 4 times per second	Receiving card: backing up senders (loop backup status)
External interfaces	For indicator light and test button
HUB pins	HUB75 interface, J1 ~ J16 connected to display modules

Hardware

