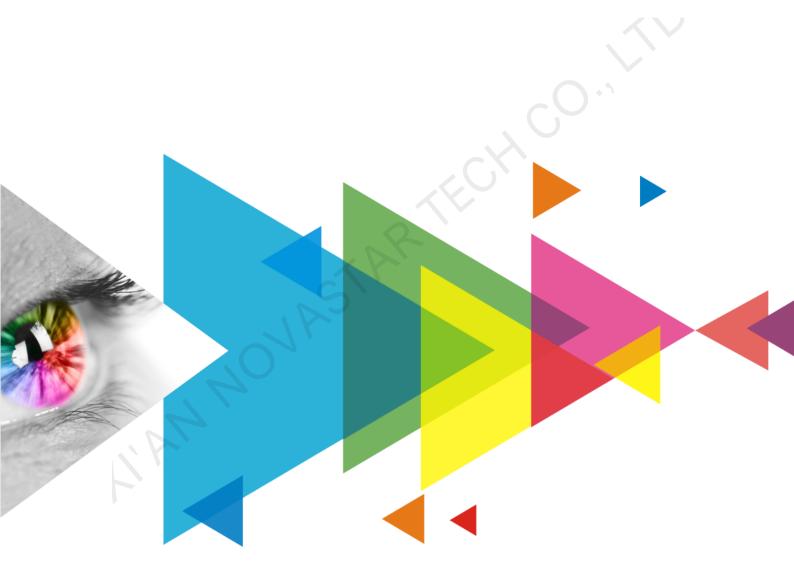


MRV328

Receiving Card

V1.2.2



Specifications

Change History

Document Version	Release Date	Description
V1.2.2	2020-09-11	Optimized the product introduction.
		Optimized the feature description.
		Optimized the legends in the appearance diagram.
		Optimized the indicator description.
		Optimized the dimensions diagram.
		Added the pin description.
V1.2.1	2019-10-30	Increased the version number only.
V1.2.0	2019-04-30	Updated the indicator status.
V1.1.0	2018-11-23	Updated the appearance diagram.
V1.0.0	2018-01-10	First release

Introduction

The MRV328 is a general receiving card that supports up to 1/32 scan. A single MRV328 loads up to 256x256 pixels. Supporting various functions such as pixel level brightness and chroma calibration, quick adjustment of dark or bright lines, and 3D, the MRV328 can greatly improve the display effect and user experience.

The MRV328 uses 8 standard HUB75E connectors for communication, resulting in high stability. It supports up to 16 groups of parallel RGB data and is suitable to various on-site setups.

Features

Improvements to Display Effect

- Pixel level brightness and chroma calibration
 Working with NovaLCT and NovaCLB, the
 receiving card supports brightness and chroma
 calibration on each LED, which can effectively
 remove color discrepancies and greatly improve
 LED display brightness and chroma consistency,
 allowing for better image quality.
- Quick adjustment of dark or bright lines
 The dark or bright lines caused by splicing of modules and cabinets can be adjusted to improve the visual experience. The adjustment can be easily made and takes effect immediately.
- 3D function
 Working with the sending card that supports 3D function, the receiving card supports 3D image output.

Improvements to Maintainability

 Setting of a pre-stored image in receiving card
 The image displayed on the screen during startup, or displayed when the Ethernet cable is

- disconnected or there is no video signal can be customized.
- Temperature and voltage monitoring
 The temperature and voltage of the receiving
 card can be monitored without using peripherals.
- Cabinet LCD
 The LCD module connected to the cabinet can display the temperature, voltage, single run time and total run time of the receiving card.
- Bit error rate monitoring
 The Ethernet port communication quality of the receiving card can be monitored and the number of erroneous packets can be recorded to help troubleshoot network communication problems.
- Firmware program readback
 The receiving card firmware program can be read back and saved to the local computer.

NovaLCT V5.2.0 or later is required.

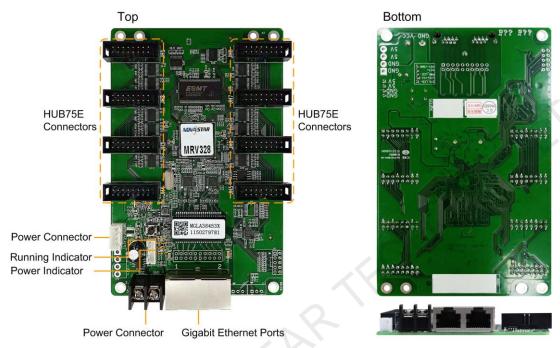
- NovaLCT V5.2.0 or later is required.
- Configuration parameter readback
 The receiving card configuration parameters can be read back and saved to the local computer.

Improvements to Reliability

Loop backup
 The receiving card and sending card form a loop
 via the main and backup line connections. If a
 fault occurs at a location of the lines, the screen
 can still display the image normally.

Dual backup of the application program
 Two copies of the application program are stored
 in the receiving card at the factory to avoid the
 problem that the receiving card may get stuck
 due to program update exception.

Appearance



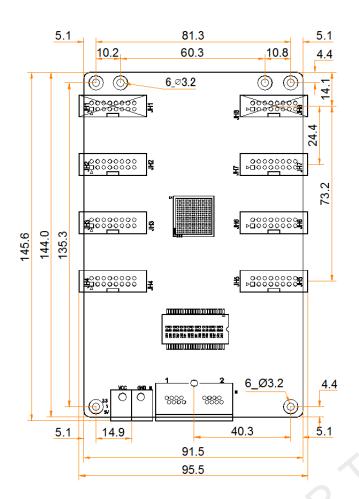
All product pictures shown in this document are for illustration purpose only. Actual product may vary.

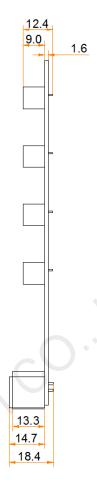
Indicators

Indicator	Color	Status	Description
Running indicator	Green	Flashing once every 0.5s	The receiving card is functioning normally. Ethernet cable connection is normal, and video source input is available.
		Flashing once every 3s	Ethernet cable connection is abnormal.
H.		Flashing 3 times every 1s	Ethernet cable connection is normal, but no video source input is available.
		Flashing once every 0.2s	The receiving card failed to load the program in the application area and now is using the backup program.
Power indicator	Red	Always on	The power supply is normal.

Dimensions

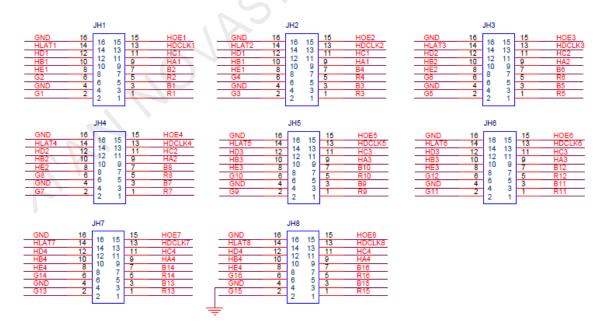
The board thickness is not greater than 2.0 mm, and the total thickness (board thickness + thickness of components on the top and bottom sides) is not greater than 19.0 mm. Ground connection (GND) is enabled for mounting holes.





Tolerance: ±0.1 Unit: mm

Pins



Pin Definitions					
Ground	GND	16	15	HOE	Display enable
Latch signal	HLAT	14	13	HDCLK	Shift clock
Line decoding signal	HD	12	11	HC	Line decoding signal
	HB	10	9	HA	
	HE	8	7	В	/
/	G	6	5	R	/

Pin Definitions					
Ground	GND	4	3	В	/
/	G	2	1	R	/

Specifications

Maximum Loading Capacity	256 x 256 pixels	
Electrical Specifications	Input voltage	DC 3.3 V to 5.5 V
	Rated current	0.5 A
	Rated power consumption	2.5 W
Operating Environment	Temperature	-20°C to +70°C
	Humidity	10% RH to 90% RH, non-condensing
Storage Environment	Temperature	-25°C to +125°C
	Humidity	0% RH to 95% RH, non-condensing
Physical Specifications	Dimensions	145.6 mm × 95.5 mm × 18.4 mm
	Net weight	85.5 g
Packing Information	Packing specifications	An antistatic bag and anti-collision foam are provided for each receiving card. Each packing box contains 100 receiving cards.
	Packing box dimensions	650.0 mm × 500.0 mm × 200.0 mm
Certifications	RoHS	

The amount of current and power consumption may vary depending on factors such as product settings, usage, and environment.

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