DH7512-S

receive card

Specifications

update record

Document Version	release time	Release Notes
V1.1.1	2022-04-21	Updated dimensional drawings
V1.1.0	2022-04-13	Updated appearance
V1.0.0	2022-03-21	First release

Introduction

DH7512-S is a universal receiving card launched by Nova. The maximum resolution of a single card is 512×384@60Hz (NovaLCT must be V5.3.1 or above). It supports color management, point-by-point brightness correction, RGB independent Gamma adjustment, 3D and other functions to improve the picture display effect and enhance the user experience.

DH7512-S uses 12 standard HUB75E interfaces for communication and supports up to 24 sets of RGB parallel data. The hardware design and software design fully consider the scenarios of user deployment, operation and maintenance, making deployment easier, operation more stable and maintenance more efficient.

Certification

RoHSÿEMC Class Aÿ

If the product does not have relevant certification in any country or region where it is sold, please contact Nova Nebula as soon as possible for confirmation or processing. Otherwise, if relevant legal risks are caused, the customer shall bear them by himself or Nova Nebula shall have the right to pursue compensation.

characteristic

Improve display effects

ÿColor management

The display color gamut can be switched freely and in real time between different color gamuts, making the color presentation of the display more accurate.

ÿPoint -by-point brightness and chromaticity

correction is combined with Nova's high-precision correction system to correct the brightness and chromaticity of each light point, effectively eliminating brightness and chromaticity differences, making the brightness and chromaticity of the entire screen highly consistent.

ÿQuick adjustment of light and dark lines

Adjust the light and dark lines caused by module splicing and cabinet splicing to improve the visual abruptness caused by the light and dark lines. The adjustment process takes effect immediately and is simple and easy to use.

ÿ 3D function: Use a

sending card that supports 3D function to output 3D images.

ÿ RGB independent Gamma adjustment With

independent master control and NovaLCT (V5.2.0 and above) that supports RGB independent Gamma adjustment, by adjusting "Red Gamma", "Green Gamma" and "Blue Gamma" respectively, it can effectively control the problems of uneven low gray and white balance drift of the display screen, making the picture more realistic.

ÿ90 ° multiple rotation of the picture The

picture can be rotated in multiples of 90° (0°/90°/180°/270°).

Improve maintainability

ÿ The Mapping function displays

the receiving card number and network port information on the cabinet, clearly obtaining the location and routing of the receiving card.

ÿ Pre-stored screen settings customize

the screen image when the computer is turned on, the network cable is disconnected, or there is no video source signal.

ÿTemperature and voltage monitoring

Monitor the temperature and voltage of the receiving card itself without the need for other peripherals.

ÿThe cabinet LCD display displays

the temperature, voltage, single operation time and total operation time of the receiving card through the cabinet LCD module.

ÿError detection

Check the communication quality of the receiving card network port, record the number of error packets, and help eliminate network communication risks.

NovaLCT must be V5.2.0 or above.

ÿ Firmware program read back

Read back the firmware program of the receiving card and save it locally.

NovaLCT must be V5.2.0 or above.

ÿConfiguration parameter readback

Read back the configuration parameters of the receiving card and save them locally.

Improve reliability

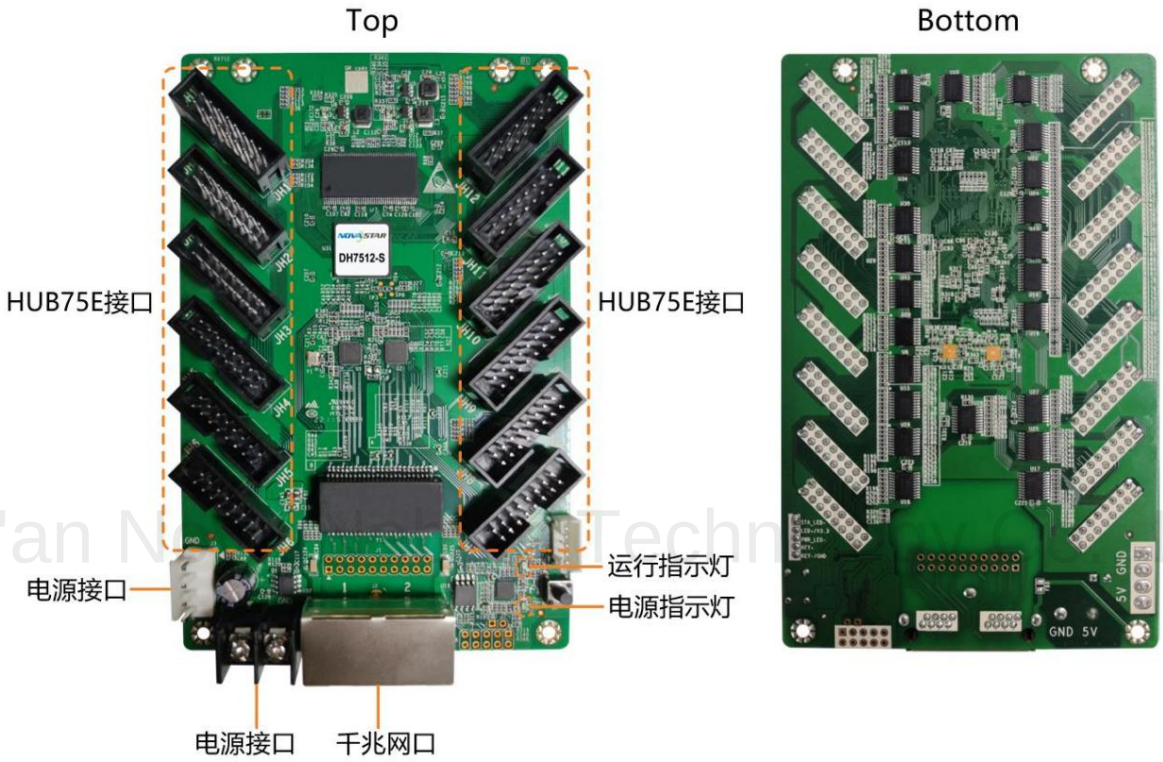
ÿLoop backup

The receiving card and the sending card are connected to form a loop through the main and backup lines. When a fault occurs somewhere in the line, the screen can still display normally.

ÿDual program backup The

receiving card has two firmware programs saved in the application area when it leaves the factory to prevent the receiving card from deadlocking due to abnormal program update process.

Exterior



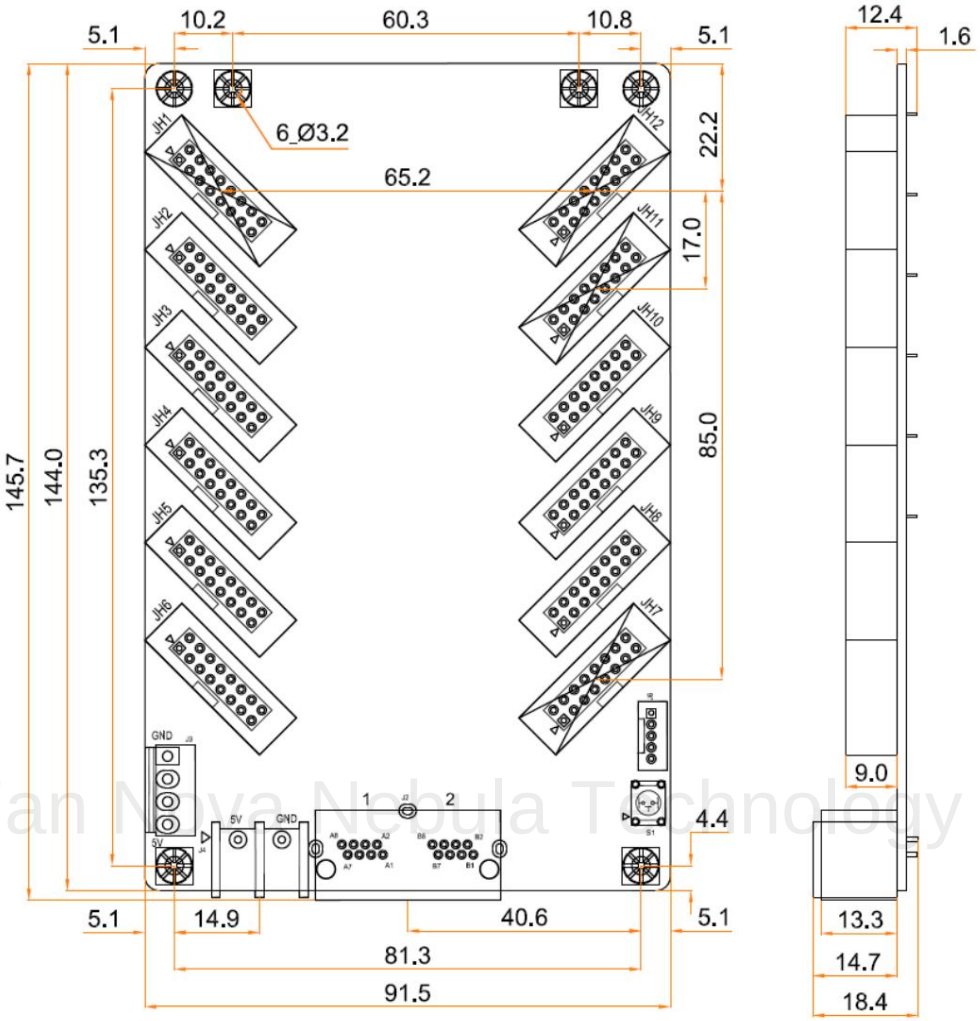
The product photos in this article are for reference only. Please refer to the actual products purchased.

Indicator Lights

Indicator Lights	Color Status		illustrate
The green indicator light flashes once every 1s.			The receiving card is working properly, the network cable is connected normally, and there is video source input
		Flashes once every 3s	Network cable connection abnormality
		Flashes 3 times with an interval of 0.5s. The network cable is connected normally, but there is no video source input.	
		Flashes once every 0.2s Application area program loading failed, entering the backup program working state	
		Flashes 8 times with an interval of 0.5s. Redundancy switching of the network port occurs and loop backup takes effect.	
The power indicator is solid red			Power input is normal

size

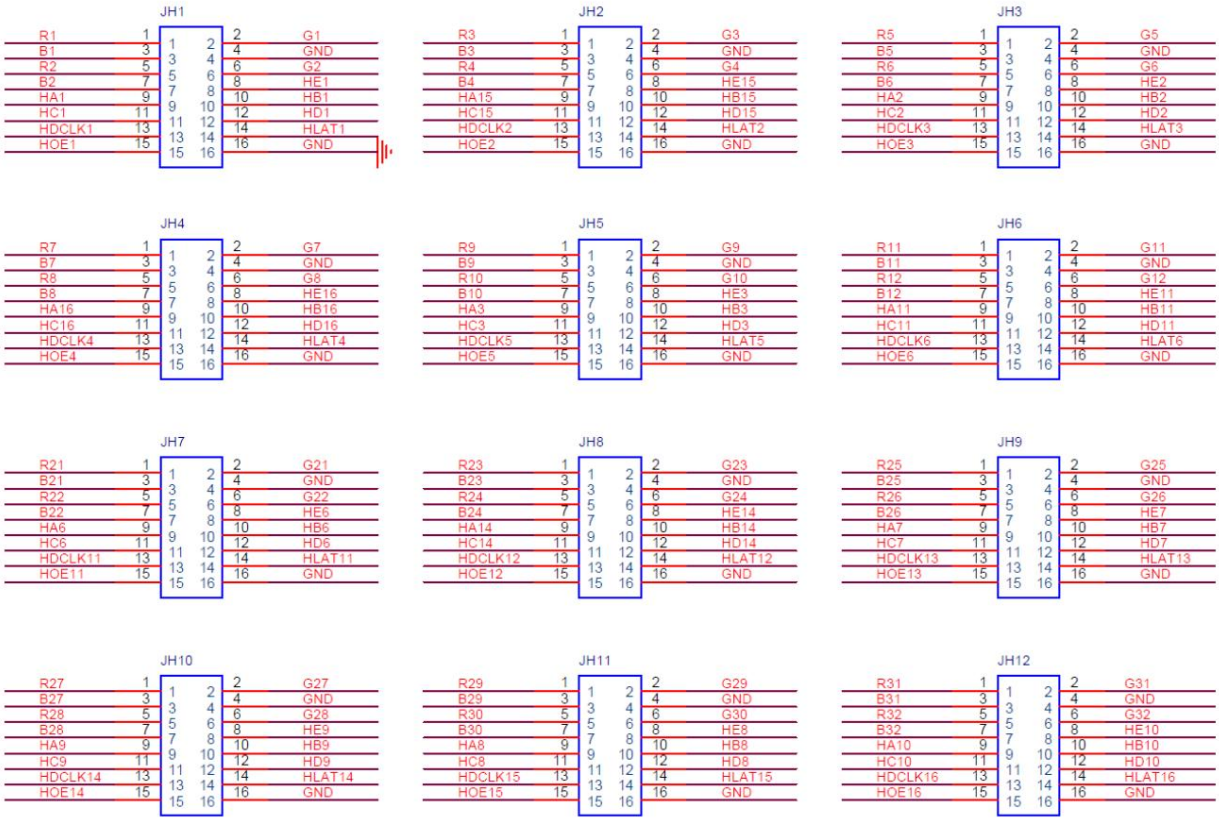
The board thickness is no more than 2.0mm, and the total thickness (board thickness + thickness of components on the front and back) is no more than 19.0mm. The positioning hole is connected to the signal ground (GND).



Tolerance: ±0.3 Unit: mm

If you need to make molds or install holes, please contact Nova to obtain more accurate structural drawings.

Data interface diagram



Data interface definition (taking JH1 as an example)					
/	R1	1	2	G1	/
/	B1	3	4	GND	Grounding
/	R2	5	6	G2	/
/	B2	7	8	HE1	Line decoding signal
Line decoding	HA1	9	10	HB1	Line decoding signal
signal Line	HC1	11	12	HD1	Line decoding signal
decoding signal	HDCLK1	13	14	HLAT1	Latch signal
Shift clock Display enable signal	HOE1	15	16	GND	Grounding

Product Specifications

Maximum load resolution 512×384@60Hz		
Electrical Specifications	Input voltage	DC 3.3Vÿ5.5V
	Rated current	0.5A
	Rated power consumption	2.5W
working environment	temperature	-20ÿÿ+70ÿ
	humidity	10%RHÿ90%RH, no condensation
Storage Environment	temperature	-25ÿÿ+125ÿ

	humidity	0%RHÿ95%RH, no condensation
Physical specifications	size	145.7mm×91.5mm×18.4mm
	net weight	93.1g Note: Single card weight
	Total weight	12.9kg Note: When using the following packaging, the total weight of the product, printed matter, and packaging materials is
Packaging Information	Packaging rules	Single card blister packaging, 100 receiving cards per box
	Packing box size	650.0mm×500.0mm×200.0mm

Current and power consumption may vary depending on product settings, environment, usage and many other factors.

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