Linsn Technology

RV907A

Receiver

Specifications

V3.0

Linsn Technology

Revision History

Document Version	Hardware Version	Revision Date	Note
V3.0	V3	2020/1	New edition

Overview

RV907A is a standardize product for LED screen manufacturer, and one card supports up to 512*512 pixels, and up to 24sets of RCG data and 32 sets of serial data.

Functions and features

1. Single card can output 16 groups of RGBR' data
2. Single card can output 24 groups of RGB data
3. Single card can output 32 groups of serial data
4. Single card maximum supports 512*512 pixels（Please note that there are recommended values depending on the design
5. Each port has VCC pin, which allows the card to get power from module
6. Support temperature detection
7. Support the cabinet-door (open/close) monitoring
8. Two lines fan-speed monitoring
9. Humidity monitoring (humidity sensor sold separately)
10. Smoke monitoring (smoke module sold separately)

11. Three lines voltage monitoring: one for the system, two for cabinet power

12. Support pixel-by-pixel brightness calibration; single-card color space conversion

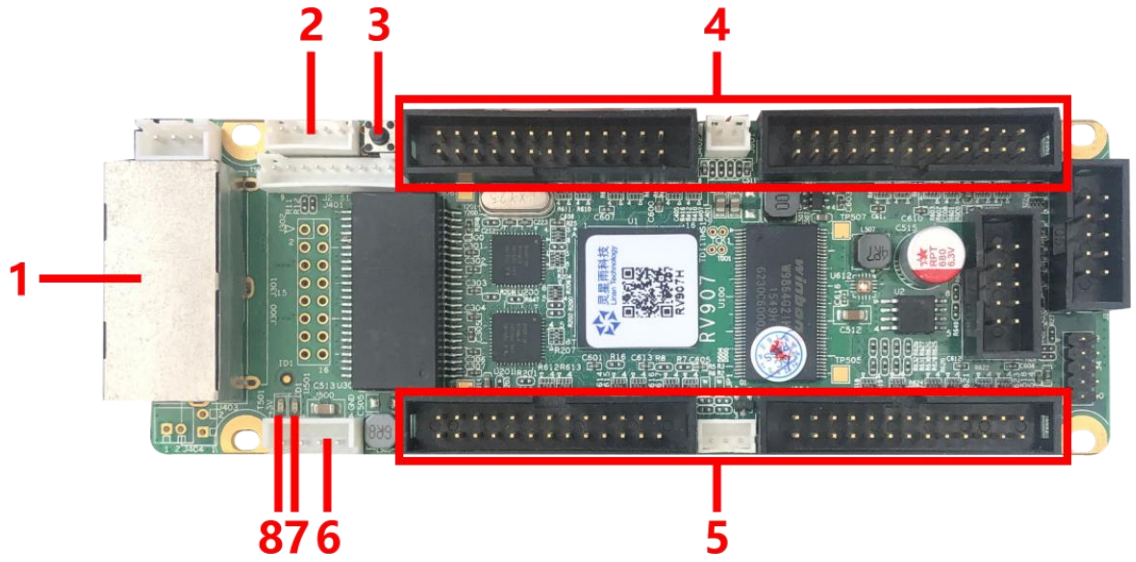
13. Support network cable BER test performances screen

14. Dual receivers backup

15. High refresh rate and high grey level with most of the driver ICs

Appearance

Linsn Technology



No.	1	2	3	4/5
Description	Gigabit port	Self-test extension port	Self-test button	Module Connector
No.	6	7	8	
Description	Power port	Red power	Green indicator	

Official website: www.linsn.com
Add：Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd, Nanshan District, Shenzhen
Tel：+86-0755-86183590/ 4008836968

		indicator		

Pinouts

1. Normal (Default mode)

Support full-color screen, virtual full-color screen, there are 16 groups RGBR' data

In normal mode, 26pin is defined as follow

A	1	2	B
OE	3	4	LAT
CLK	5	6	VCC
C	7	8	D
R1	9	10	G1
R1’	11	12	U1
GND	13	14	R2
G2	15	16	R2’
U2	17	18	R3
G3	19	20	GND
R3’	21	22	U3
R4	23	24	G4
R4’	25	26	U4

2. 20-group data mode (Select 20 data for RV907 in card mode option of LEDStudio)

Only for full color screen, each interface has 5 groups of data.

The 26PIN defined as follow

A	1	2	B
OE	3	4	LAT
CLK	5	6	VCC
C	7	8	D
E	9	10	R1
G1	11	12	U1
GND	13	14	R2

G2	15	16	U2
R3	17	18	G3
U3	19	20	GND
R4	21	22	G4
U4	23	24	R5
G5	25	26	U5

3.24-group data mode (Select 24 data for RV907 in card mode option of LEDStudio)

Only for full color screen, 4 scan mode or up needs serial decodes or switching triode with serial decoding. 26Pin is defined as follow, and each interface has 6 groups' data

A	1	2	B
OE	3	4	LAT
CLK	5	6	VCC
R1	7	8	G1
U1	9	10	R2
G2	11	12	U2
GND	13	14	R3
G3	15	16	U3
R4	17	18	G4
U4	19	20	GND
R5	21	22	G5
U5	23	24	R6
G6	25	26	U6

4. 16-group or 64-group serial data mode

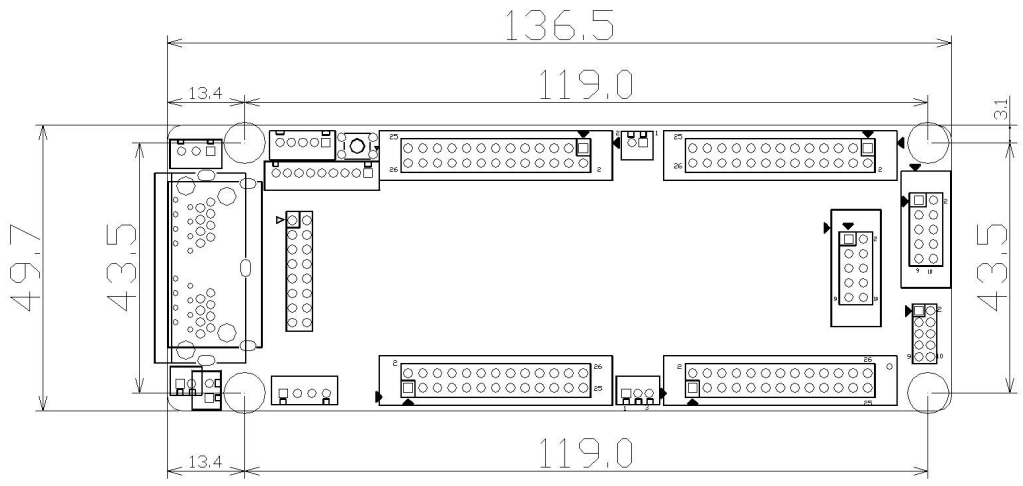
Support full-color screen, virtual full-color screen and double-color screen.

Linsn Technology

Only interface-1 output the valid data with 16-group mode; all the interfaces output valid data with 64-group mode

A	1	2	B
OE	3	4	LAT
CLK	5	6	VCC
C	7	8	D
R1	9	10	R2
R3	11	12	R4
GND	13	14	R5
R6	15	16	R7
R8	17	18	R9
R10	19	20	GND
R11	21	22	R12
R13	23	24	R14
R15	25	26	R16

Dimension



Official website: www.linsn.com
Add：Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd, Nanshan District, Shenzhen
Tel：+86-0755-86183590/ 4008836968

Linsn Technology

Specifications

Capacity	512X512Pixels	
Power	Input Voltage	DC4.5V ~ 5.5V
	Rated power consumption	4W
Working Environment	Temperature	-20℃~ 70℃
	Humidity	0% ~ 95%
Physical Dimensions	Dimensions	136.5 X 49.7 mm
	Weight	67g
Packing Info	Packing	Each card packed with small red foam bag, and 100pcs per carton
	Carton Dimension	622.0mm×465.0mm×176.0mm
	Carton Weight	9.5 kg

END

Official website: www.linsn.com
Add：Floor 15&16, Jiajiahao Business Building, No. 10168, Shennan Blvd, Nanshan District, Shenzhen
Tel：+86-0755-86183590/ 4008836968