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RV907H
Receiver
Specifications

V3.0

Revision History

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

Overview

RV907H is a standardize product for LED screen manufacturer, and one card supports up to 1024*256 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 1024*256 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
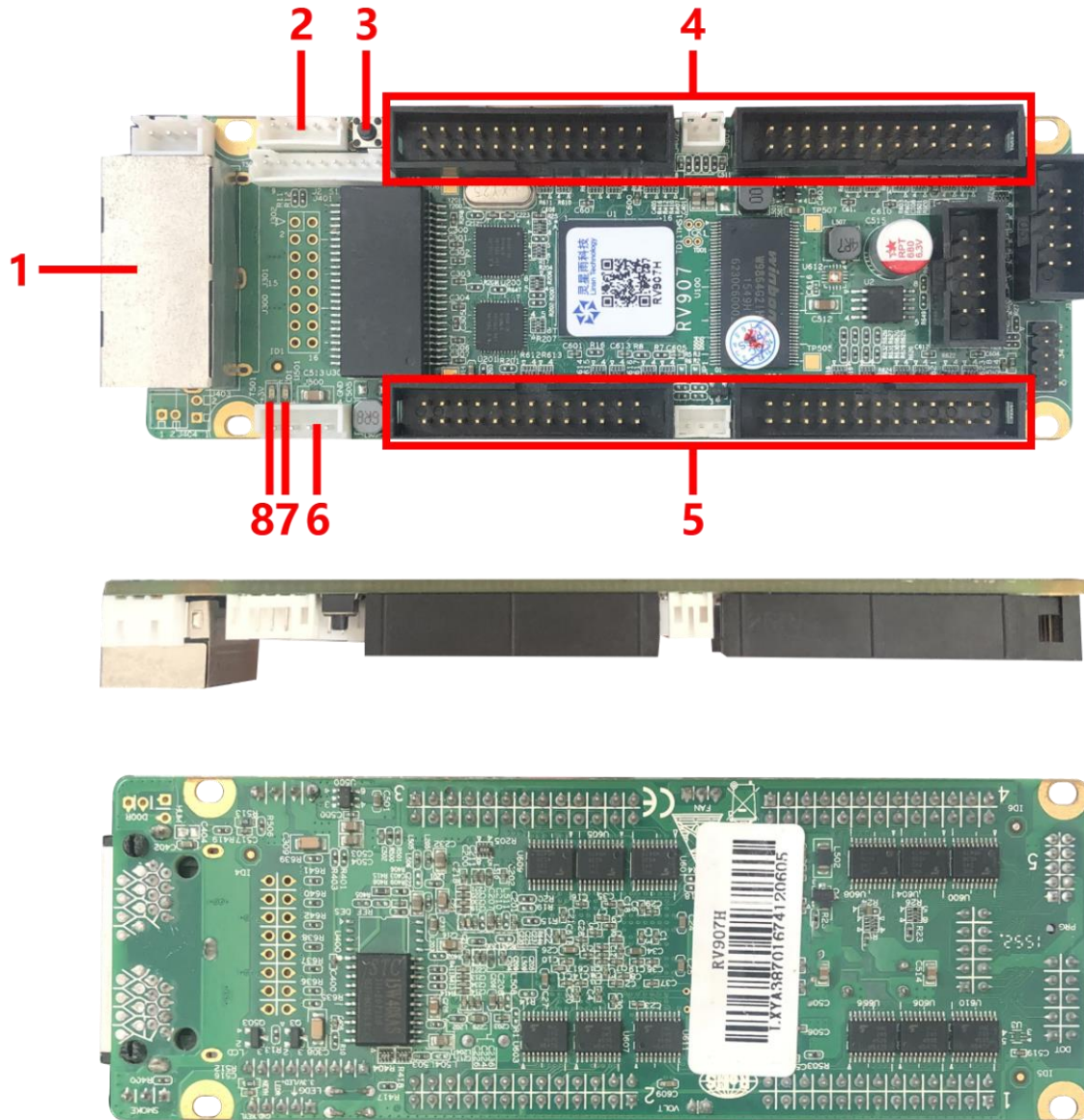
No.	1	2	3	4/5
Description	Gigabit port	Self-test extension port	Self-test button	Module Connector
No.	6	7	8	
Description	Power port	Red power indicator	Green indicator	

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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.

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

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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

RV907H on-board monitoring

Interface on Receiving card(see the silk-screen)	Function	Usage
FAN	2 lines fan speed monitoring	Fan with Control Line
DOOR	cabinet door open/close monitoring	To form Open/close circle
VOLT	voltage monitoring	Connect to VCC
SMOKE	smoke monitoring	Smoke monitoring module SK901 is sold separately
HUM	humidity monitoring	Humidity monitoring module is sold separately
LCD	LCD module for displaying real-time monitoring information	LCD monitoring module is sold separately

Dimension
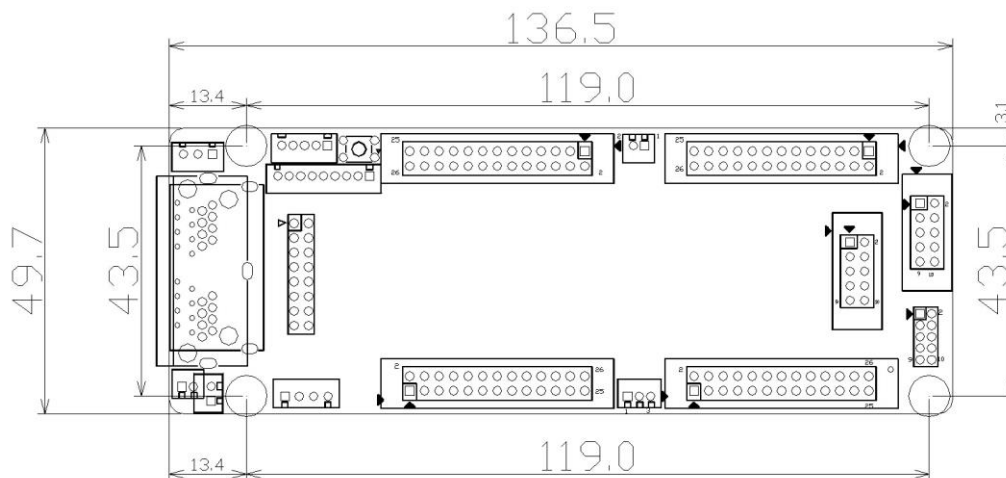
Specifications

Capacity	1024X256Pixels	
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