Receiving Card M-RA50 Specs

Ⅰ. Product Introduction

M-RA50 is a Universal Receiving Card of Mooncell, with the following features ：

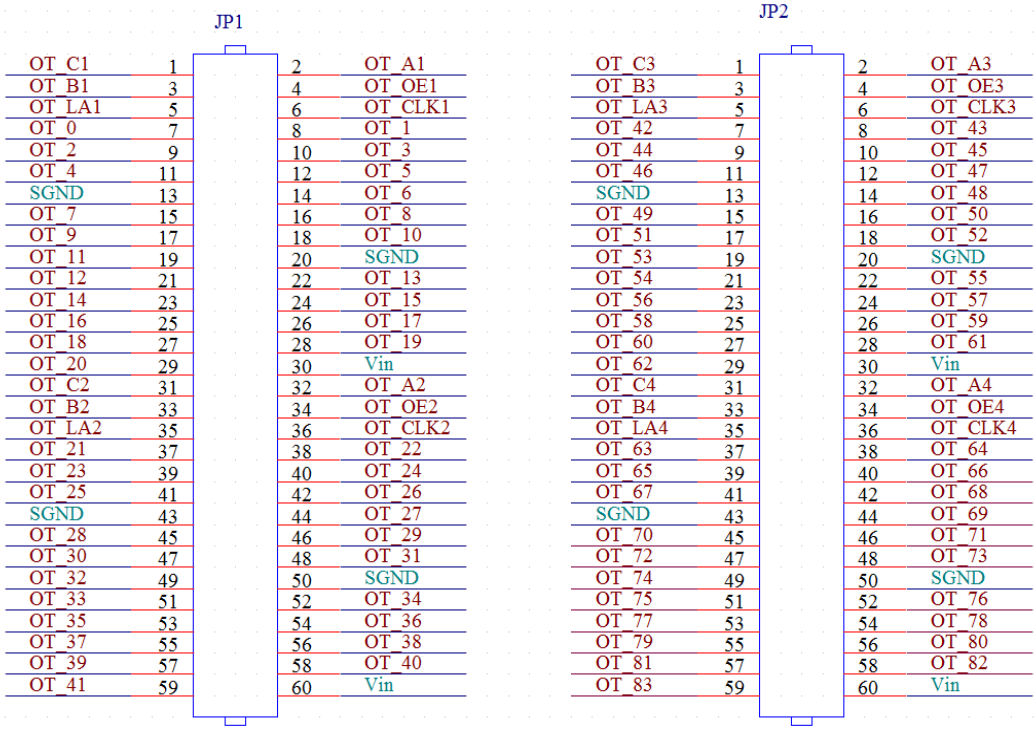
1. 28 sets of RGB output.
2. 24 sets of RGB output.
3. the maximum pixel that one can could load is 64K% 2CEA orange to ft and data could load 8K pixel.
4. Input voltage: 3.5V--6V.
5. High Refresh rate, high brightness and high gray grade with universal IC(Driver).
6. Support receiving card parameters read-back.
7. Dual backup for the network Cable.
8. High Refresh rate, high brightness and high gray grade with universal IC(Driver).
9. Variety of Drivers are supported. It supports PWM IC, Point by point Detecting IC and Conventional IC.
10. Supports receiving card stored picture settings before hand.
11. Monitoring all the parameters of the receiving card.
12. Monitor the external environment.
13. Intelligent recovery function, swapping the receiving cards without loading all the data again.
14. Screen never black. Companied with Mooncell Intelligent Power Supply(two power, supplies as in parallel, equalized current, short-circuit protection) you will never ever get black screen.
15. Each interface provides power pins, supporting unit board take power.
16. It confirms to RoHs and CE-EMC standards.

Ⅱ. The definition of the output port

JP1、JP2（60P plug）two working models：28 sets RGB、24 sets RGB：

1. 28 sets Model:

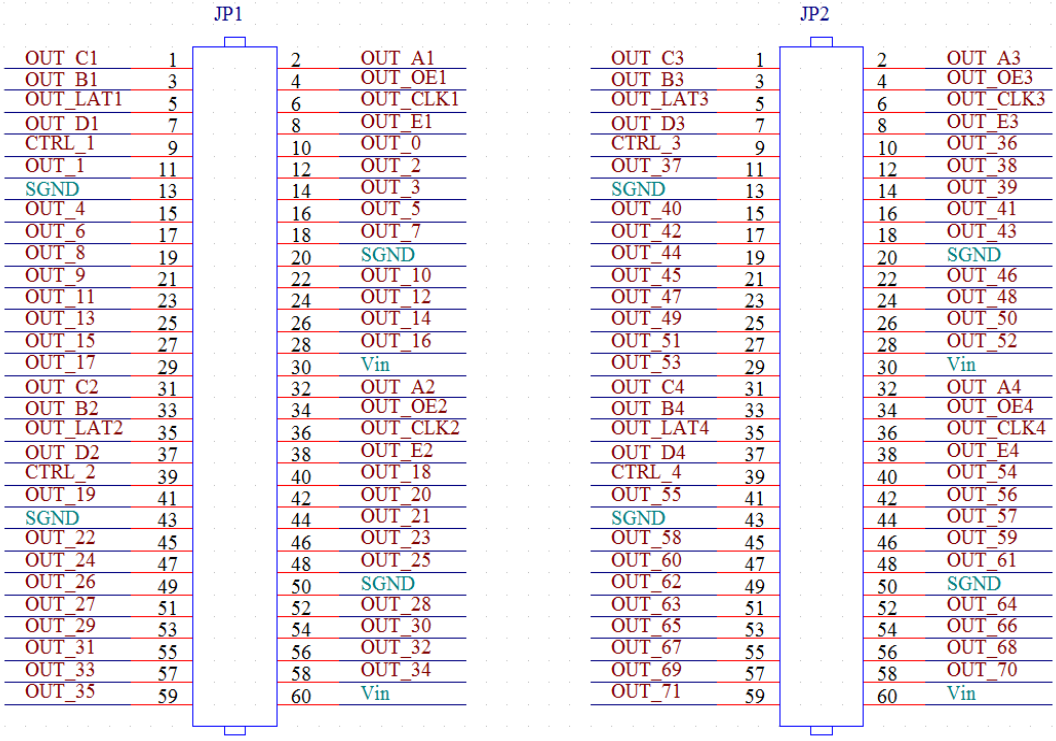
In 28 sets RGB Model, Decoding scan support 8 scan lines, and it required to achieve a shift scan, if more than 8 scan lines.



Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	C	2	A	3	B	4	OE
5	LAT	6	CLK	7	R1	8	G1
9	B1	10	R2	11	G2	12	B2
13	GND	14	R3	15	G3	16	B3
17	R4	18	G4	19	B4	20	GND
21	R5	22	G5	23	B5	24	R6
25	G6	26	B6	27	R7	28	G7
29	B7	30	VCC	31	C	32	A
33	B	34	OE	35	LAT	36	CLK
37	R8	38	G8	39	B8	40	R9
41	G9	42	B9	43	GND	44	R10
44	G10	46	B11	47	R11	48	G11
49	B11	50	GND	51	R12	52	G12
53	B12	54	R13	55	G13	56	B13
57	R14	58	G14	59	B14	60	VCC

2. 24 sets Model:

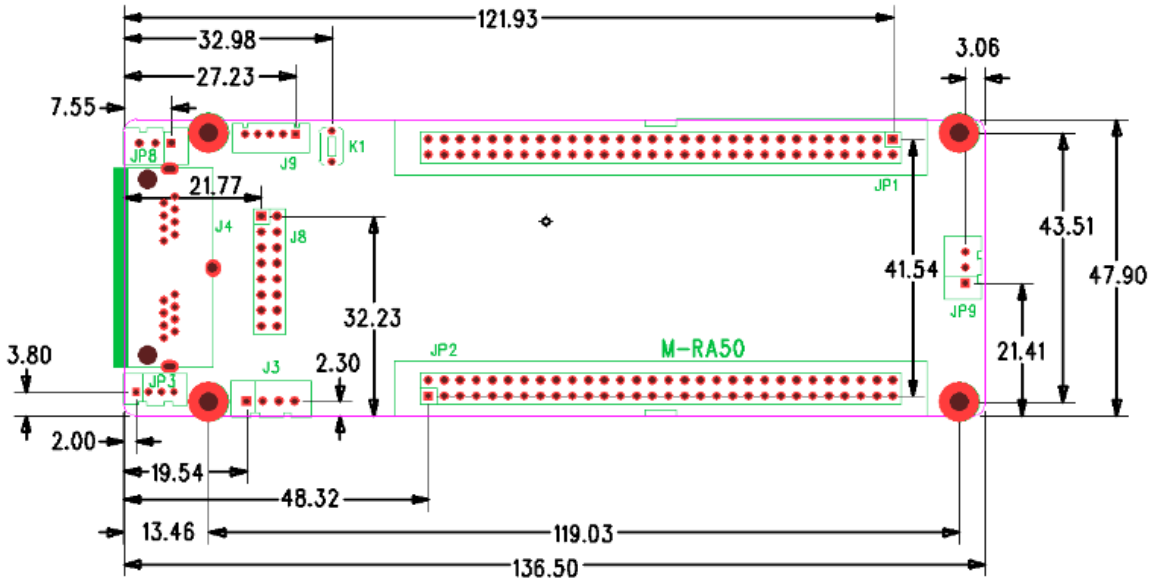
In 24 sets RGB Model, Decoding scan support 32 scan lines.



Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	C	2	A	3	B	4	OE
5	LAT	6	CLKJ	7	D	8	E
9	CTRL	10	R1	11	G1	12	B1
13	GND	14	R2	15	G2	16	B2
17	R3	18	G3	19	B3	20	GND
21	R4	22	G4	23	B4	24	R5
25	G5	26	B5	27	R6	28	G6
29	B6	30	VCC	31	C	32	A
33	B	34	OE	35	LAT	36	CLKJ
37	D	38	E	39	CTRL	40	R7
41	G7	42	B7	43	GND	44	R8
44	G8	46	B8	47	R9	48	G9
49	B9	50	GND	51	R10	52	G10
53	B10	54	R11	55	G11	56	B11
57	R12	58	G12	59	B12	60	VCC

Note： E, It can be used as a blanking control pin, In the case of display scanning Less than 16 sweep. Or else, as E signal.

Ⅲ. Size and Connectors



1. J9 Definition

Pin No.	1	2	3	4	5
Definition	LEDG	3.3V	LEDR	KEYH	GND/KEY-

2. J8 Definition

Pin No.	2	4	6	8	10	12	14	16
Definition	A0+	B0+	C0+	D0+	A0+	B0+	C0+	D0+
Pin No.	1	3	5	7	9	11	13	15
Definition	A0-	B0-	C0-	D0-	A0-	B0-	C0-	D0-

3. J3 Definition

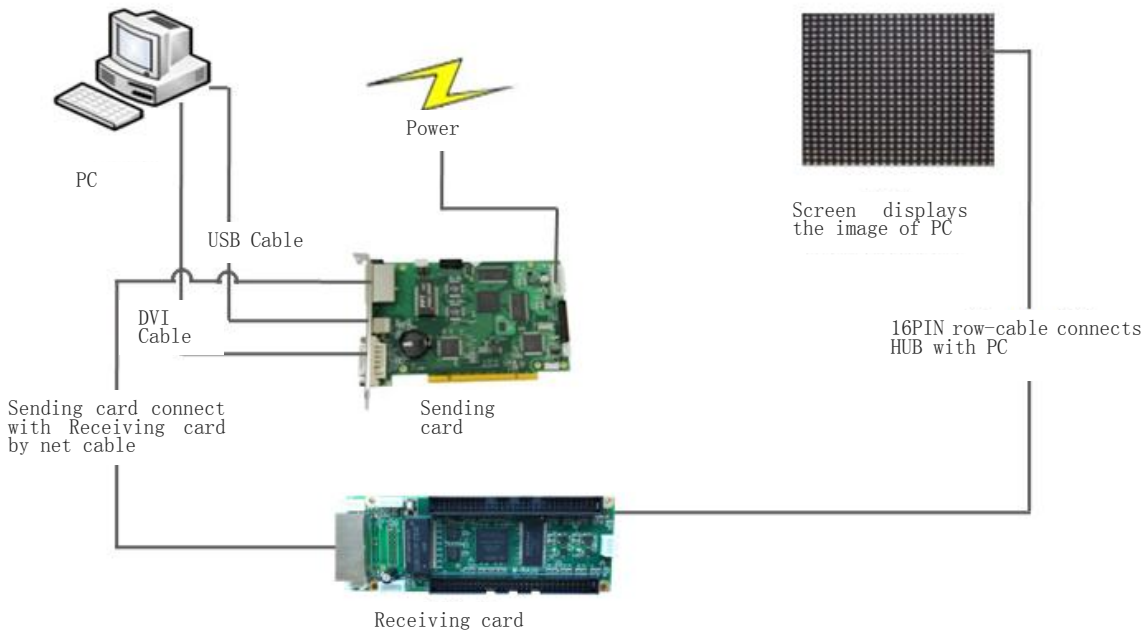
Pin No.	1	2	3	4
Definition	+5V	+5V	GND	GND

Ⅳ. Product Picture

Ⅴ. Technical Parameters

Performance Options	Typical Value	Maximum Value
Supported Screen Module	Single Color/ Dual Color/ Full Color/Virtual Pixel	
Supported Receiving Card Quantity(Single Network Port, Cascading)	<100	240
Areas of Pixel Loaded for One Single Card	128*128	96K
RGB Output Group of single receiving card	28	28
Lines of One Set of RGB Driver	1/2/4/8/16/32	1~32
Optical Fiber Transmit Distance	Multi-mode Optical Fiber：500m； Single-Mode Optical Fiber：10km	
Some other Performances	10b Video Source, OE Protection, LED Display Self-Detecting	
Working Current	0.6A	1.0A
Protecting Current	3.0A	
Working Temperature	-10℃ - 65℃	
Extreme Working Temperature	-20℃ - 75℃	
Working Humidity（%）	0%-95%	

Ⅵ.Connection



Ⅶ.Packing Content

1. One Receiving Card, Anti-static Bubble Bag
2. 100PCS as in one Carton

Ⅷ.Attentions

1. Please follow the Instructions for the standard Operation.
2. Professionals are needed to install and test the product, and it has to be anti-static.
3. Keep away from water.