



LED-M12E

Receiving card



Specification

Version V1.0



Revision History

No.	Summary of Revision Content	Date	Version
1	First Release	2024/11/20	V1.0
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			



LED-M12E Receiving card

Product Description

The LED-M12E is a fine-pitch receiving card introduced by MAGNIMAGE. It features high-precision interfaces and has a maximum capacity of 256K (512*512) pixels per card. It supports up to 24 groups of RGB parallel data and a miximum 64 scans, Additionally, it offers various advanced features including point-by-point brightness correction, fast light and dark line repair, non-upgradable dead card prevention, customizable RGB gamma adjustment, module flash management, smart module support, automatic module calibration, color restoration, contour smoothing, HDR10, HLG,. When paired with different transmitting devices, it self-adapts to two operating modes of 0.65 million and 2.2 million.





Payload Capacity

Three-wire parallel(RGB)	Maximum Load	Number of cascade	Support scans	
	pixels	cards per 1g port		
24 groups 512X512		≤128	1-64 scans	
		Mach series transmit ole can support max)pixels.		

Improved Display performance

	Utilizing a color analyzer, the LED's original color space is measured and then converted to various standard color spaces or user-defined ones,
Color Restoration	eliminating color deviations between the playback source and the LED, resulting in display that closely resembles reality.
Contour Smoothing (18bit+)	Effectively addresses the issue of grayscale loss on the display screen, particularly in low brightness conditions, enhancing the improvement of dark details in images and thus elevating the quality of LED displays.
RGB Customizable	Independently adjusts the gamma of red, green, and blue,effectively
RGB Gamma	addressing issues such as unevenness and color deviation in low gray
Adjustment	levels of LEDs.



Fast Bright and Dark Line Repair	Improves the bright and dark lines caused by uneven installation between modules or cabinets, enhancing overall display uniformity.			
	With the assistance of calibration software, performs brightness			
Brightness Correction	correction on each LED pixel individually, effectively eliminating color deviations to achieve highly consistent displays and improve display			
0D D: 1	quality. Achieves LED 3D display when combined with sending devices that support			
3D Display	3D functionality.			
Rotate by multiples of 90 degrees"	The display supports rotation in increments of 90 degrees.			
Mirror display	Horizontal or vertical mirroring.			

Enhanced Portability of Operation

	The system assesses the communication quality between the			
Communication	network ports of the receiving cards. In tandem with the display			
detection	on the cabinet and the flickering of indicator lights, it aids users			
	in swiftly pinpointing the location of potential issues.			
	Upon activating the intelligent numbering feature within the			
Mapping	CLINK software, the cabinet will display the receiving card's			



	identification number and network port information, thereby				
	facilitating a clear understanding of the receiving card's location				
	and wiring configuration.				
Unarada fras	The factory firmware is compatible with conventional and the				
Upgrade-free	vast majority of dual-latch and PWM chips.				
parameter	It supports the parameter read-back function for the				
readback	configuration of the receiving card.				
Pre-stored Image	The display image shown on the LED when there is no input signal or				
The stored image	when the network cable is disconnected.				
Data interface	In conjunction with Clink software, it is possible to monitor and				
Customizable	edit the output data of the receiving card.				

Enhanced Stability

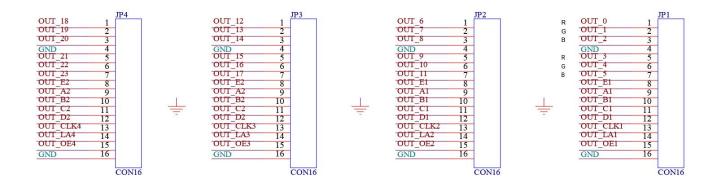
Ethernet port	The network port is non-directional and can be used arbitrarily, supporting hot backup for primary and secondary network
	cables.。
Firmware	The receiver card firmware program supports factory reset and



readback	read-back functions to prevent issues such as dead cards after						
	upgrades.						
	Monitors the communication quality between the network						
Error Rate	ports of the receiving card, records error						
Detection							
Temperature and	Detects the temperature and voltage of the receiving card itself						
Voltage Monitoring	Detects the temperature and voltage of the receiving card itself.						

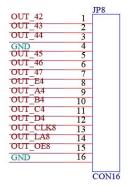
Output interface definition

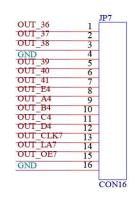
Definition of 24 groups of parallel data interfaces.

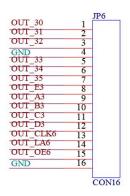


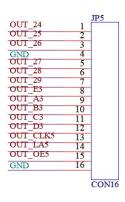
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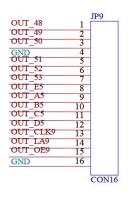
Connect Wonderful World

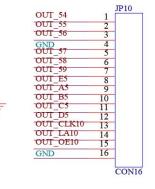


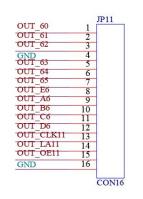


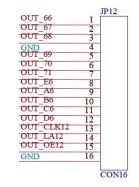












JP1---JP12 Interface Definition:

Instructions for use	Definition	Pin	Pin	Definition	Instructions for use
	R	1	2	G	RGB data output
DCD data autout	В	3	4	GND	Case ground
RGB data output	R	5	6	G	RGB data output
	В	7	8	OUT_E	
Line de cedie e cienel	OUT_A	9	10	OUT_B	Line decoding signal
Line decoding signal	OUT_C	11	12	OUT_D	



Shift clock	OUT_CLK	13	14	OUT_LAT	Latch signal
Display enable	OUT_OE	15	16	GND	Case ground

CN14 Interface Definition:

Pin	1	2	3	4	5
Definition	GND	KEY+	LED	VCC	STA

CN46 power socket Definition;

PIN	1	2	3	4
Definition	VCC	VCC	GND	GND

Indicator light description

pilot lamp	position	status	instruction
Status indicator light (Green)	D16	Uniform slow flashing	The receiving card is working properly, the network cable connection is normal, and there is
		Uniform Flash	The receiving card is working properly, the network cable is connected properly, and there is a video signal input.
		Constant extinction	No gigabit network signal
		Flash twice between	The receiving card is working properly, the network cable circuit is connected, and there is a video signal input.
Status indicator light(red)	D17	Light	Power supply is normal



Product dimensions and appearance unit(mm) tolerance (±0.3)



Working Parameters

	INPUT VOLTAGE	DC3. 8-5. 5V	
Electrical parameters	Rated current	0. 6A	
	Rated power	3W	
Working environment	Working temperature	-20°C - 70°C	
	Working humidity	10%RH-90%RH	
Saving environment	Temperature	-25°C ~125°C	
Size	144.00mmX91.20mm		
Weight	100g		



Note

- > Must be installed by professional staff
- > Must be anti static
- > Attention of water and dust



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