



LED-M28T

Receiving Card



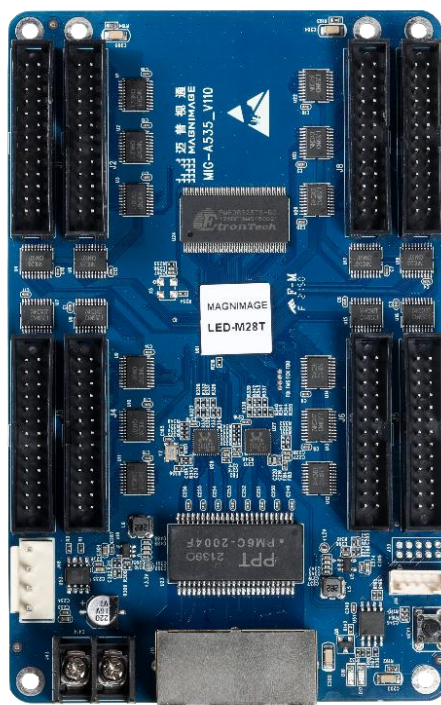
Product Specification

V1.0

LED-M28T Receiving Card

- **Product Description**

LED-M28T is a receiving card which integrates 8*HUB320 (26pin) interfaces, the maximum loading capacity is 192K (512*384) pixels and used with the CLINK software, it is more stable and reliable under the premise of ensuring the display effect.



● Loading Capacity

Three-wire parallel (RGB)	Max. Loading capacity (pixel)	Scan row
32 groups	512*384	1-64 scan

● Improvement of Display Quality

Independent RGB Gamma adjustment	Independent adjustment for red/green/blue Gamma to solve the problem of image non-uniformity and white balance under low gray level.
Bright & dark line quick repair	Eliminates the bright and dark lines during the LED screen installation period.
Brightness & Chroma calibration	With the help of calibration software, the problem of inconsistent brightness on the screen can be eliminated, and the color uniformity of the screen is better.
Fine and Smooth outline(18 Bit+)	Improve the grayscale loss in low brightness condition, especially improve the dark detail.

Low latency	To decrease the latency between video source to LED display in 1 frame.
N* 90° rotation	Rotate the video source by every N*90°.
Mirror display	Mirror display of horizontal or vertical.

- **Easier Operation**

Free cable-connection	The loading area of a single signal cable is no longer limited to be rectangular. No more waste of equipment and cost-saving.
Communication detection	Check the communication quality between the network ports, cooperate with the the indicator flashing light, the hidden problem links can be quickly located.
Loading capacity expansion	With the equipment that supports loading expansion function, the single network port can loading 1,000,000 pixels after the function is turned on in the CLINK software.
No need reconfigure for card replacement	After replacing the receiving card, there is no need to resend the configuration file and screen connection.

Smart Sequencing	After turn on this function on CLink software, the receiving card number and network port information will be displayed on the LED panel, so that the location and cable connection mode can be clearly seen.
No need to upgrade	The factory firmware program is compatible with conventional and most of the dual latch, PWM driver IC.
Configuration parameter readback	Support the configuration parameter of receiving card readback.
Prestore image	Display the image when no input signal or signal cut-off.

● **Improvement of the Stability**

Network port backup	The network port can be used for input or output both way, support hot backup of main and backup cable.
No System Breakdown (firmware read back)	The firmware program of receiving card can restore the factory settings and readback to prevent card system breakdown after upgrading.
Bit error rate detection	Test the communication quality of the system, record the error and solve the communication issue.

● **Output Interface Definition**

8*26 pin JP1——JP8 Interface Definition



JP1 Interface Definition

Definition	PIN	PIN	Definition
R1	1	2	G1
B1	3	4	D_1
R2	5	6	G2
B2	7	8	GND
R3	9	10	G3
B3	11	12	GND
R4	13	14	G4
B4	15	16	GND

OUT_A1	17	18	OUT_B1
OUT_C1	19	20	OUT_D1
OUT_E1	21	22	GND
OUT_CLK1	23	24	OUT_LA1
OUT_OE1	25	26	GND

JP2 Interface Definition

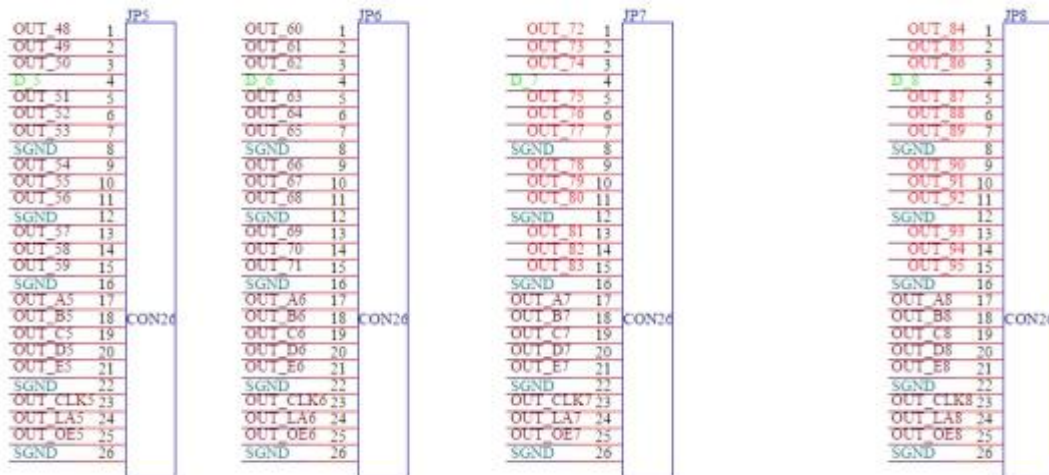
Definition	PIN	PIN	Definition
R5	1	2	G5
B5	3	4	D_2
R6	5	6	G6
B6	7	8	GND
R7	9	10	G7
B7	11	12	GND
R8	13	14	G8
B8	15	16	GND
OUT_A2	17	18	OUT_B2
OUT_C2	19	20	OUT_D2
OUT_E2	21	22	GND
OUT_CLK2	23	24	OUT_LA2
OUT_OE2	25	26	GND

JP3 Interface Definition

Definition	PIN	PIN	Definition
R9	1	2	G9
B9	3	4	D_3
R10	5	6	G10
B10	7	8	GND
R11	9	10	G11
B11	11	12	GND
R12	13	14	G12
B12	15	16	GND
OUT_A3	17	18	OUT_B3
OUT_C3	19	20	OUT_D3
OUT_E3	21	22	GND
OUT_CLK3	23	24	OUT_LA3
OUT_OE3	25	26	GND

JP4 Interface Definition

Definition	PIN	PIN	Definition
R13	1	2	G13
B13	3	4	D_4
R14	5	6	G14
B14	7	8	GND
R15	9	10	G15
B15	11	12	GND
R16	13	14	G16
B16	15	16	GND
OUT_A4	17	18	OUT_B4
OUT_C4	19	20	OUT_D4
OUT_E4	21	22	GND
OUT_CLK4	23	24	OUT_LA4
OUT_OE4	25	26	GND



JP5 Interface Definition

Definition	PIN	PIN	Definition
R17	1	2	G17
B17	3	4	D_5
R18	5	6	G18
B18	7	8	GND
R19	9	10	G19
B19	11	12	GND
R20	13	14	G20
B20	15	16	GND
OUT_A5	17	18	OUT_B5
OUT_C5	19	20	OUT_D5
OUT_E5	21	22	GND
OUT_CLK5	23	24	OUT_LA5
OUT_OE5	25	26	GND

JP6 Interface Definition

Definition	PIN	PIN	Definition
R21	1	2	G21
B21	3	4	D_6
R22	5	6	G22
B22	7	8	GND

R23	9	10	G23
B23	11	12	GND
R24	13	14	G24
B24	15	16	GND
OUT_A6	17	18	OUT_B6
OUT_C6	19	20	OUT_D6
OUT_E6	21	22	GND
OUT_CLK6	23	24	OUT_LA6
OUT_OE6	25	26	GND

JP7 Interface Definition

Definition	PIN	PIN	Definition
R25	1	2	G25
B25	3	4	D_7
R26	5	6	G26
B26	7	8	GND
R27	9	10	G27
B27	11	12	GND
R28	13	14	G28
B28	15	16	GND
OUT_A7	17	18	OUT_B7

OUT_C7	19	20	OUT_D7
OUT_E7	21	22	GND
OUT_CLK7	23	24	OUT_LA7
OUT_OE7	25	26	GND

JP8 Interface Definition

Definition	PIN	PIN	Definition
R29	1	2	G29
B29	3	4	D_8
R30	5	6	G30
B30	7	8	GND
R31	9	10	G31
B31	11	12	GND
R32	13	14	G32
B32	15	16	GND
OUT_A8	17	18	OUT_B8
OUT_C8	19	20	OUT_D8
OUT_E8	21	22	GND
OUT_CLK8	23	24	OUT_LA8
OUT_OE8	25	26	GND

J6 Interface Definition

PIN	1	2	3	4
Definition	GND	SWCLK	SWDIO	+3.3V

J11 Interface Definition

Definition	VBB	GND	FLS_CS	FLS_DO	FLS_CLK
PIN	1	2	3	4	5
PIN	10	9	8	7	6
Definition	VBB	GND	mCONF_DONE	PROGRAM_B	FLS_DI

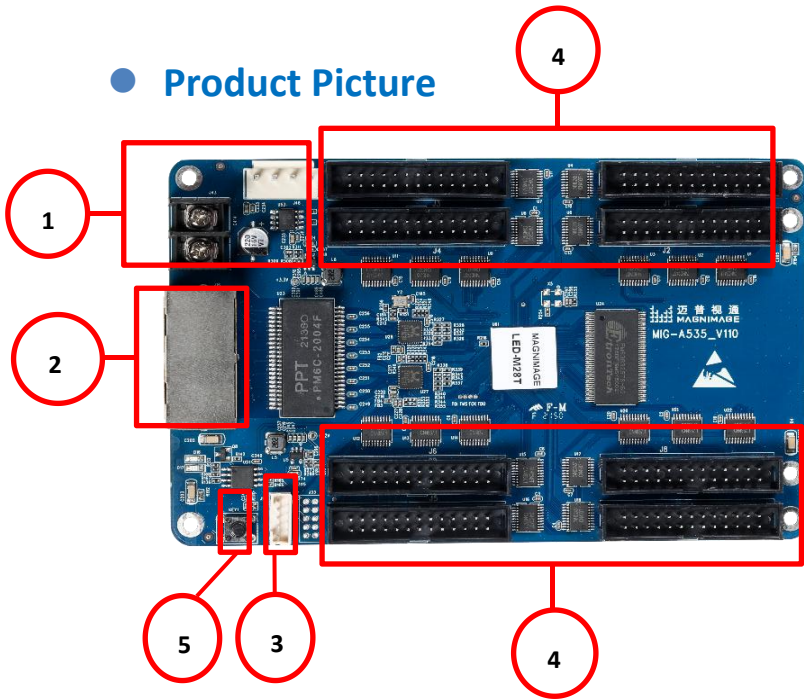
J12 Interface Definition

PIN	1	2	3	4	5
Definition	GND/KEY-	KEY+	LEDR-	VCC/LED+	LEDG-

● Indicator Light Specification

Indicator	Position	Status	Description
Status indicator(green)	U6	Slow flash regularly	The receiving card works normally,the network cable connects normally, no DVI signal input
		Fast flash regularly	The receiving card works normally,the network cable connects normally,with DVI signal input
		Off always	No Gigabit network signal
		Flashes at 3 times intervalstimes	The receiving card works normally,the network cable loop connects,with DVI signal input
Status indicator (red)	U5	Always ON	Power supply is normal

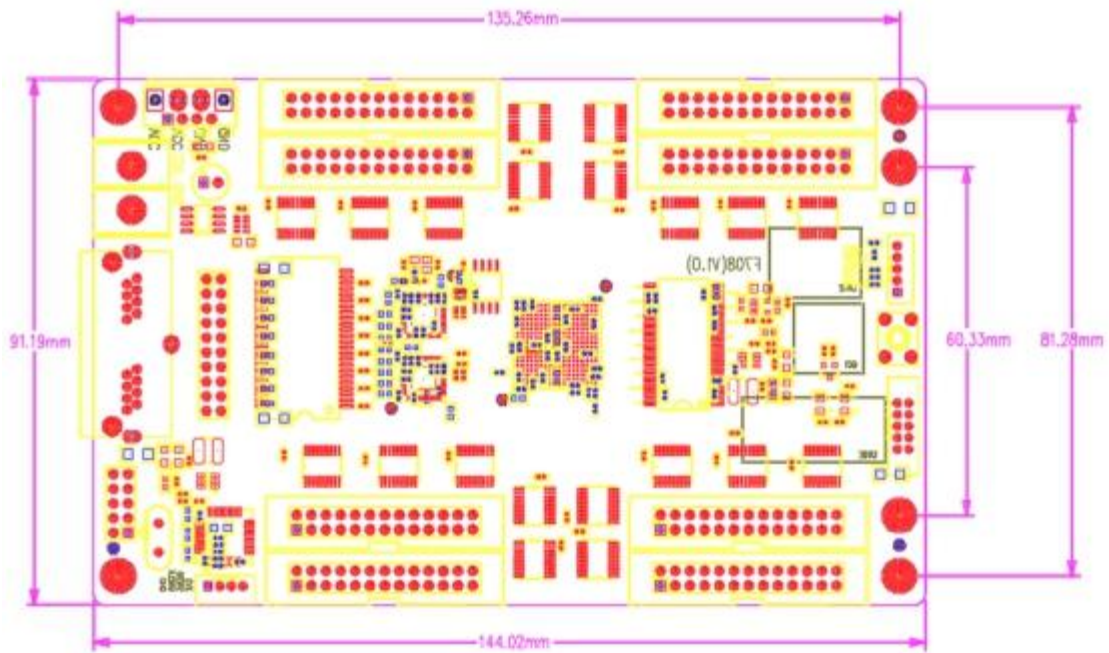
● Product Picture



Interface detail

1	DC 5V power interface
2	Gigabit network port
3	Debug interface
4	8*26 Pin row port
5	Test button

● Product Dimensions(unit:mm)




● Parameters

Power consumption	3W
Input voltage	DC 3.5-5.5V
Operating temperature	-20°C - 70°C
Operating humidity	10%RH-90%RH
Overall dimension(L×W×H)	144.02mm×91.19mm×17mm
Net weight	65g
Certification	RoHS compliant, CE-EMC compliant

- **Notes**

- (1) The installation process should be completed by professionals.
- (2) It must be anti-static.
- (3) Need to keep waterproof and dust-proof.

24h  **400-6868-203**

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