MAGNIMAGE

C-LiNK

LED-M12T

Receiving Card

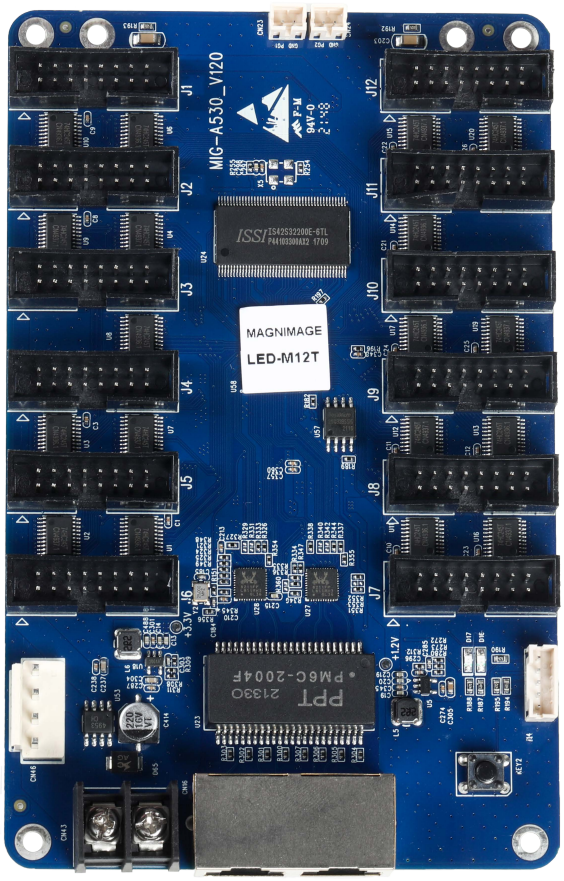
Product Specification

V1.0

LED-M12T Receiving Card

Product Description

LED-M12T is an universal FPGA receiving card which integrates 12×HUB75E 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 capaciy（pixel）	Quantity of cascade cards	Scan row
24 groups	512*384	≤128PCS	1-64 scan

Improvement of Display Quality

Customized 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.
Brighness & 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.
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.

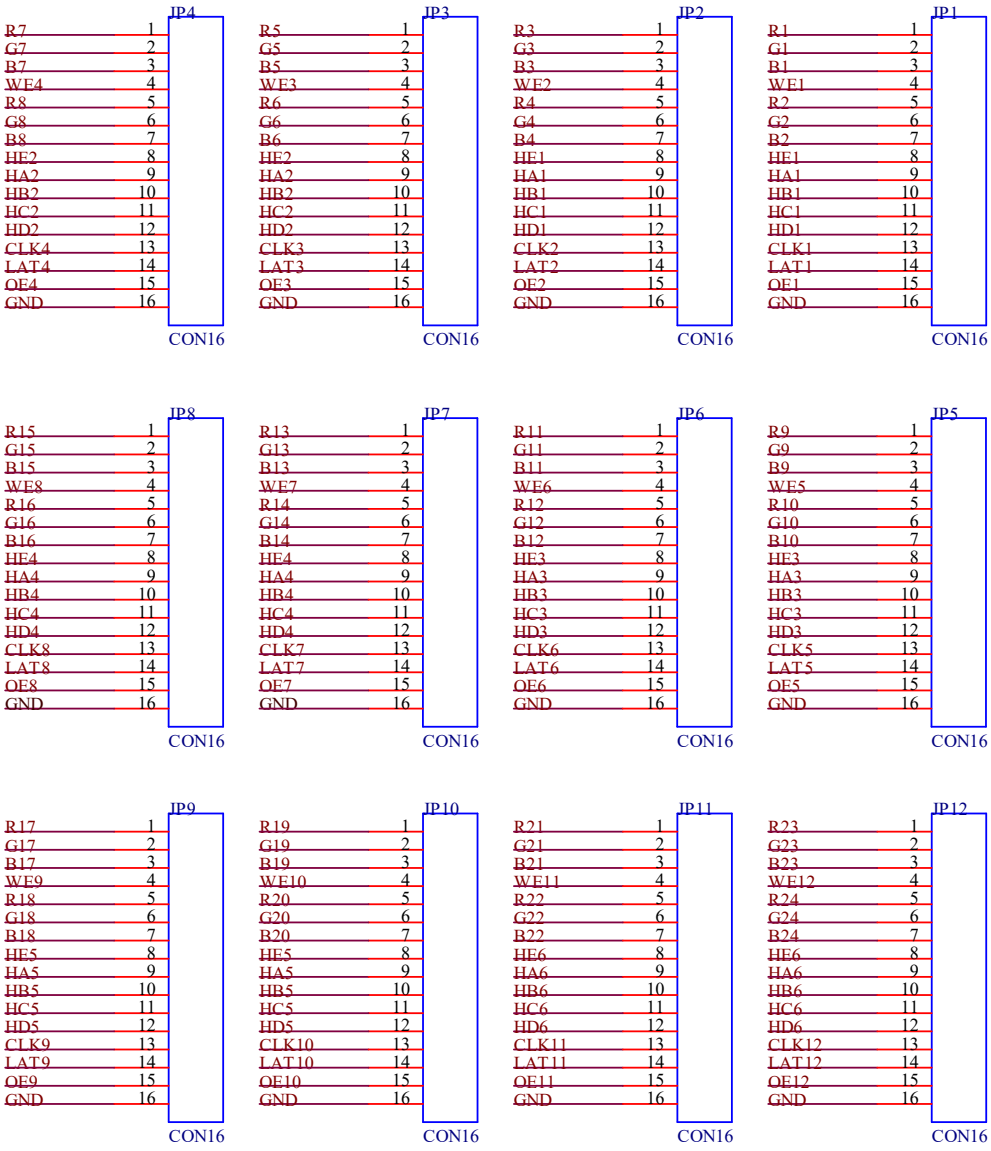
Configuration parameter readback	Support the configuration parameter of receiving card readback.
Prestore image	Display the image when no input signal or signal cut-off.

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

Definition of 24 groups parallel data interfaces



JP1——JP12 Interface Definition

Description	Definition	Pin	Pin	Definition	Explanation
RGB data output	R	1	2	G	RGB data output
	B	3	4	WE	Read and write control signals
	R	5	6	G	RGB data output
	B	7	8	HE	Row decoding signal
Row decoding signal	HA	9	10	HB	
	HC	11	12	HD	
Shift clock output	CLK	13	14	LAT	Latch signal output
Display enable signal (note 1)	OE	15	16	GND	Ground

Note 1: Pin 15 is the display enable pin, it is GCLK signal when using PWM chip.

J11 Interface Definition

Definition	Pin	Pin	Definition
+5V	1	2	GND
FLS_CS	3	4	FLS_DO
FLS_CLK	5	6	FLS_DI
PROGRAM_B	7	8	mCONF_DONE
GND	9	10	+5V

J12 Indicator Interface Definition

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

J14 Definition of Power Outlet

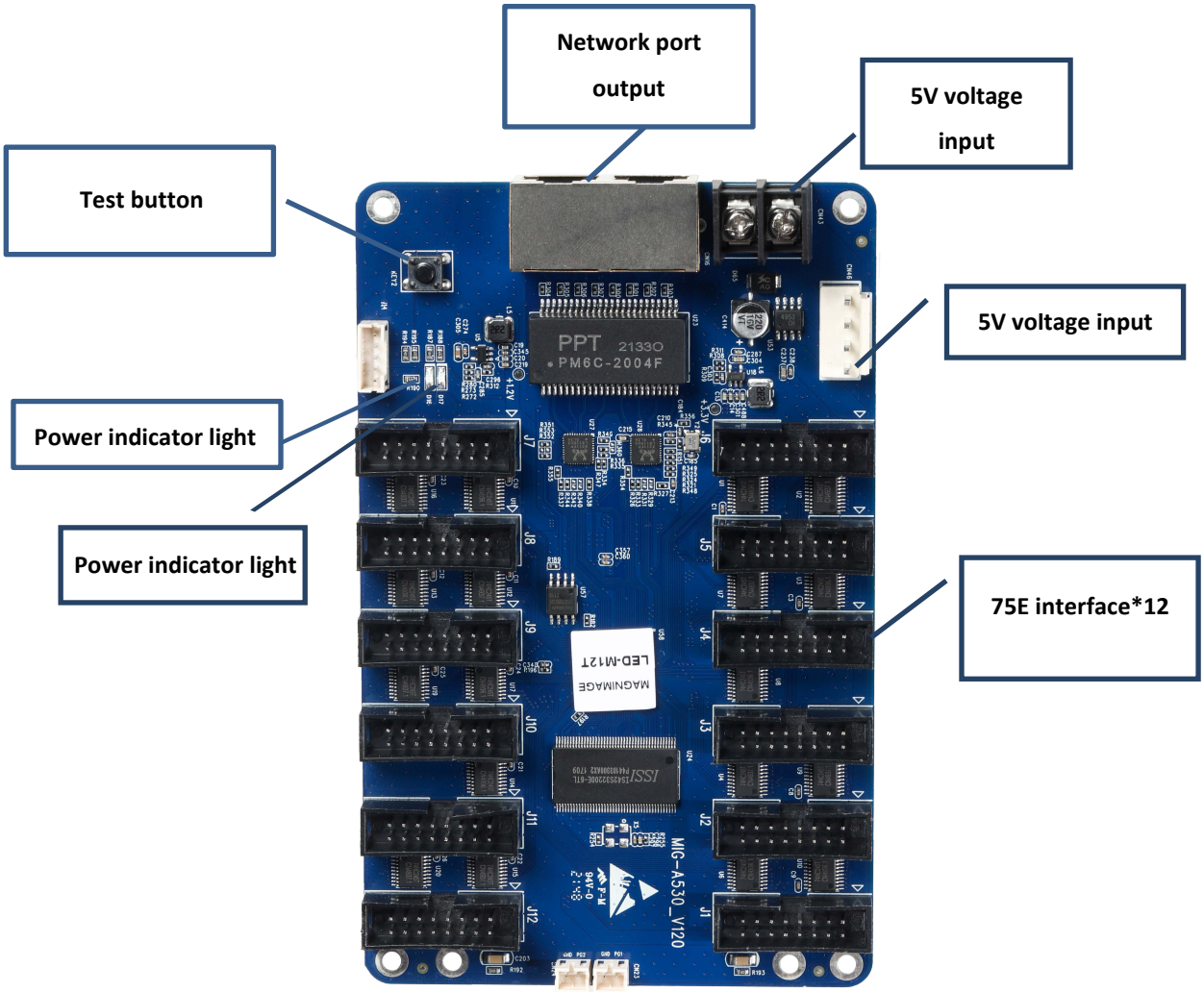
Pin number	1	2	3	4
Definition	VCC	VCC	GND	GND

Indicator Light Specification

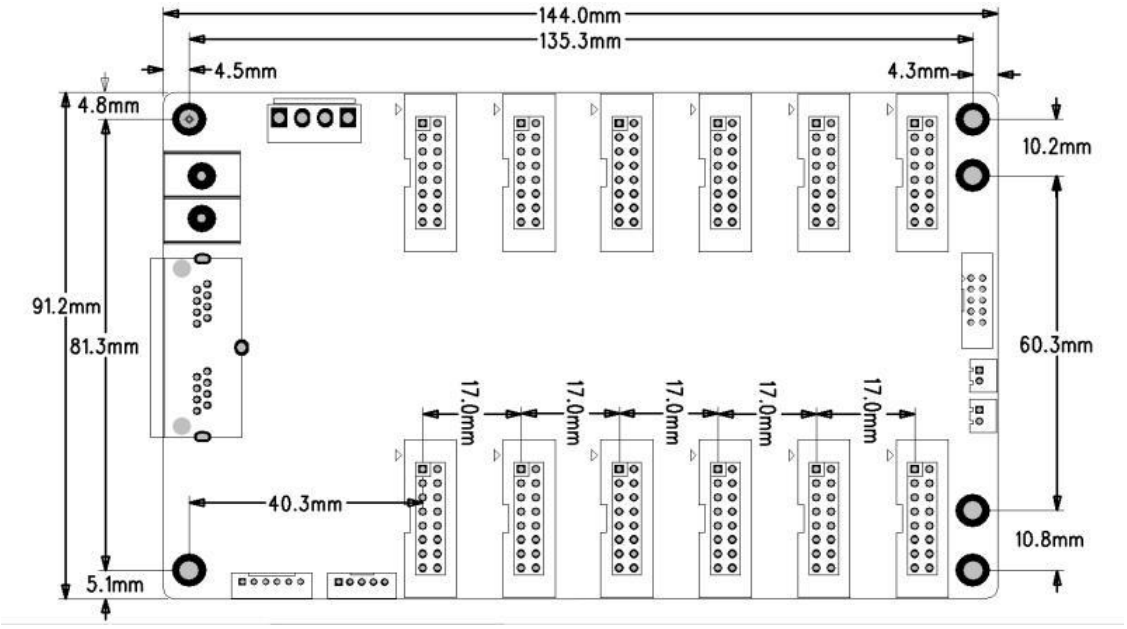
Indicator	Position	Status	Description
Status Indicator （Green）	U6	Slow flash regularly	The receiving card works normally,the network cable connects normally, no DVI signal input
		Fast flash regularly	The receiving card works normally,the network cable connects normally,with DVI signal input
		Off always	No Gigabit network signal
		Flashes at 3 times intervals	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



Product Dimension（unit：mm）



Parameters

Electrical parameters	Input voltage	DC3.5-5.5V
	Rated current	0.6A
	Rated power	3W
Working environment	Working temperature	-20℃ - 70℃
	Working humidity	10%RH-90%RH

Storage environment	Temperature	-25℃～125℃
Card dimension	144.02mmX91.2mm	
Net weight	100.8g	
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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