



# FPGA Receiving Card

# A708 Product Specifications





<sup>1</sup> Skype:cheersnigel ADD:1st Floor,Comprehensive Building, Baoshi South Road,Shiyan Town, Baoan District, Shenzhen,PRC A708 Receiving Card Specification

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**Updates History** 

File Version	Released Date	Updates Records
V3.0	31/03/2020	First Edition
V3.2	28/012021	Parameters Edited





# <u>1 Product Overview</u>

#### **Product Introduction**

A708 is a standard receiving card that is fully researched and developed by Mooncell; it adopted 8x HUB75E interfaces; it can supports the maximum 16 groups of the parallel connection data; the maximum loading capacity could reach up to 256\*512 pixels; with strong processing ability, supper reliability and high competitive price.

#### **Application Scenarios**

It could be widely used for high-end LED display area that requires high standards; and has significant advantages in application scenarios such as led rental display, TV Broadcast, LED display for respectable Event, High-end project, etc.







## **Displaying** Effect

It supports pixel level brightness and Chroma Calibration	Using it with the Mooncell Calibration Software to calibrate each one of the pixels on its brightness and Chroma. It can effectively eliminate the Chromatic aberration so as to enhance its consistency of the brightness and Chroma to a high level and result in a better displayed effects.
<i>Multiple Solutions of the Displayed</i> <i>Effects are Supported</i>	Using it with Monncell AutoLED Software, the Refresh and Grey Scale performances are able to take the precedence over other settings.
The Images on the led screen can be rotated 90 degree in a factor of multiple times	Using it with Mooncell AutoLED Software.
The images can be zoomed in or out	Using it with Mooncell AutoLED
Enhanced Operability:	1
The Receiving Card is Supported to detect its own Sequence number	Using the Network Port testing function on Mooncell AutoLED Software, the receiving card serial number and the Network Port Information will be displayed on the target cabinet. Users will be able to get to know the locations of the receiving cards as well as its Connection diagram.
	Using it with the Mooncell AutoLED

Data Port User-Defined is supported Using it with the Mooncell AutoLED Software, you can detect and edit the output



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	data of the receiving cards.
<i>To build up a complicated cabinet is supported</i>	On AutoLED Software, there is an 'Advanced Setting', from here you can quickly arrange or structure the modules at your option.
	On AutoLED Software, there is a
To structure a complicated Led	"Complicated Led Screen Connection", from
Screen is supported	here you can quickly arrange or structure the
	cabinet modules on your option.

#### Smart Software and Hardware Stability

The receiving card can read the configuration data back from where it has been stored	You will be able to do this on Mooncell AutoLED Software.
It supports to detect the error rates of the network cable	On the Mooncell AutoLED Software, you can detect the network cable connectivity in real time to tell the condition of the network cables, so that you can get rid of any errors immediately.
Communication Monitoring Function	On Mooncell AutoLED Software, you can monitor the Working Status of the receiving cards in real time.
Dual Power Supplies Backup is supported	2 Power Supplies can be connected simultaneously and the working status can be detected. Whenever there's a power supply failure, it can be detected, the system then will automatically decrease the brightness of the led screen so that it can still keep working properly
It supports to detect the	It will detects the voltage status of the receiving cards.

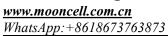


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voltage(customized)	
It supports to detect the temperature(customized)	The operating temperature of the receiving cards could be detected.
<i>It supports to detect the power</i> <i>status(customized)</i>	The power status of the power supplies could be detected.

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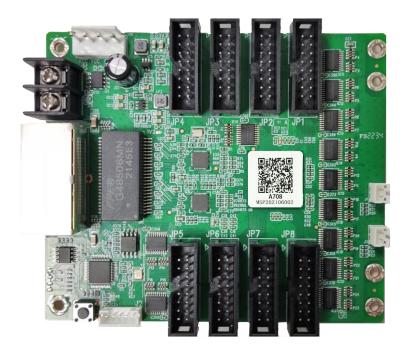
## **3Product Parameters**

#### **Basic Parameters**

RGB Parallel	The Maximum Loading Capacity(Pixel	Loading Capacity After lightness Calibrating (Pixels)	after	Capacity Color ng(Pixels)
16 Groups	s) 256*512	256*512	160*512	

Single Network Pot Cascading	Scanning Lines
Quantity	Supported
<i>≤1000PCS</i>	1-64 Scan

## Hardware Introduction



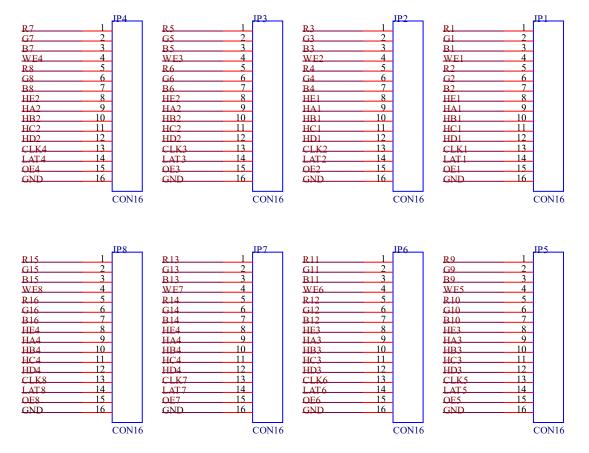


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#### **Output Port Definition**

Port Definition of the 16 Groups of parallel connection data





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#### JP1-JP8 PIN Definition:

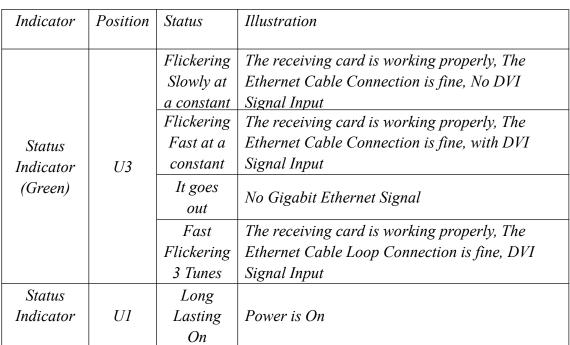
Definition	PIN#	PIN#	Definition
R	1	2	G
В	3	4	GND
R	5	6	G
В	7	8	GND
R	9	10	G
В	11	12	GND
R	13	14	G
В	15	16	GND
OUT_A1	17	18	OUT_B1
OUT_C1	19	20	OUT_D1
OUT_E1	21	22	GND
OUT_CLK1	23	24	OUT_LA1
OUT_OE1	25	26	GND

#### J2 Indicator PIN Definition:

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

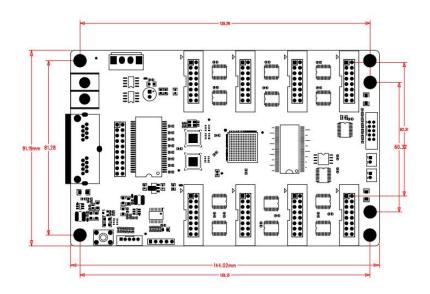
PIN#	1		2		3	4		5
Definition	GND/KI	E <b>Y-</b>	KEY+	-	LEDR-	VCC/LED+		LEDG-
J14 Socket PIN Definition:								
PIN#		1		2		3	4	
Definition		VCC		VC	CC	GND	G	ND





#### Indicator Illustration

### Dimensions





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# **4Product Specifications**

### **Specifications**

	Input Voltage	DC3.5-5.5V			
Electric Parameters	Rated Current	0.6A			
	Rated Power	3W			
Operating Environment	<b>Operating</b> Temperature	-20°C - 70°C			
Operating Environment	Operating Humidity	10%RH-90%RH			
Storage Environment	Temperature	-25°C~125°C			
Dimensions	107.4mmX91.5mm				
Net Weight	75g				
Certifications	It conforms to RoHS and CE-EMC standards.				

#### **Precautions**

- 1. The testing (debugging) and installation should be done by the qualified professionals
- 2. Anti-Static, Water-Proof and Dust-Proof Required

