

Shenzhen Mooncell Electronics Co., Ltd

# Asynchronous Control Card MBR16 Specifications



# MBR16 Specifications www.mooncell.com.cn WhatsApp:+8618673763873

# **Contents**

Product Overview	1
Introduction to MBR16:	1
Product Features	
Application Scenarios	
Introduction to its Functions	
Performances	
Audio and Video Performance	
Terminal Management	
Product Parameters	
Basic Parameters	
Hardware Interface	
Product Specifications	
Basic Specifications	

<u>www.mooncell.com.cn</u> WhatsApp:+8618673763873

# MBR16 Control Card

# Product Overview

#### *Introduction to MBR16:*

MBR16 control card adopts high-performance 4-core CPU+GPU chip-set and integrates sending and receiving card as one, it has 16x HUB75E interfaces, it could supports the maximum 32 sets of RGB parallel connection data, it supports video, picture, text and other multimedia playback, with high cost performance.

#### **Product Features**

- Support Android7.1 system
- PC, Mobile Phones and Tablets are supported to be used to control and manage with the programs and its parameters
- it supports cloud cluster control management. You don't have to be on site to configure you screen.
- *It supports to have multiple displays to work simultaneously (synchronized).*
- Support Ethernet Interface
- Support WIFI/HOTSPOT
- Low power consumption, small size, easy installation, stable and reliable performance

# Application Scenarios

It could be widely used at business display area(fields) such as: Fixed Installation LED Display, Intelligent Lamppost Led Display, Over-door Led Display, Vehicle-Mounted Led Display, Chain Stores Cluster Display Management, Led Electronic Whiteboard, Led Mirror(Mirror-like Led Display), Advertise Led Display, and the Led Display that does not need to be used with the PC(Offline Mode).

# Introduction to its Functions

# **Performances**

- ◆ It supports HD videos, Pictures (Images), TXT, Weather Info, Clock and a variety of programs.
- ◆ It supports to have the multiple windows, the size & position of the windows could be set as you wish and the window overlay is supported.
- ◆ *LAN,WIFI,4G,etc.are supported.*
- ◆ *Applications for Android and IOS are available.*
- ◆ *PC, Mobile Phones and Pad are supported to be used to control and manage with the programs and its parameters.*
- ◆ The RS485 Sensor Interface could be supported to monitor the temperature, humidity, lightness and some other environmental situations (parameters).
- ◆ The brightness of the led display could be automatically/Manually adjusted.
- ◆ Using the Network Time Protocol (NTP) to synchronize the Time (To get the accurate Time).
- ◆ *It supports to have multiple displays to work simultaneously (synchronized).*
- ♦ *It supports to use the USB Flash disk to update the programs, plug and play.*
- ◆ It supports to play the programs as in "player list" orders
- ◆ It supports remote switch the screen on/off via the relay switch.
- ◆ it supports cloud cluster control management

### Audio and Video Performance

Programs Partition	The Programs Windows could be
	partitioned as you wish, and the same
	with the superposed windows.
Video Format	AVI,WMV,MPG,RM/RMVB,MOV,DAT,VO
	B,MP4,FLV,etc.
Audio Format	MPEG-1 Layer III, AAC,etc.
Image Format	BMP 、 JPG 、 PNG,etc.
TXT Display	Single-Line TXT,Static TXT,Multi-Line
	TXT
Image Partition	It supports Video,Image,Scrolling
	Caption,LOGO,Data and Time; the

Web:www.mooncell.com.cn

Skype:cheersnigel

ADD: 1st Floor, Comprehensive Building, Baoshi South Road, Shiyan Town, Baoan District, Shenzhen. PRC

# MBR16 Specifications

www.mooncell.com.cn WhatsApp:+8618673763873

	images could be partitioned as you wish.
OSD Supported	It supports 32bit True Color OSD,it could
	be displayed at any position, it supports
	the video ,image and TXT to be played
	together at the same time, the image or
	TXT could be superposed on the videos, it
	supports
	transparent, semi-transparent, opaque
	effects.
RTC(Real Time Clock)	Real Time Clock Display and
	Management

# Terminal Management

Network Communication	LAN/WIFI/4G
Programs Update	USB Flash Disk Plug and Play, Terminal
	Ethernet Management
Device Management	PC,Android,IOS and some other Smart
	Terminal Devices
Wireless Control	Brightness Real Time Adjustment, On/Off
	Display,System Parameters
	Settings, Programs Play
	Management, Wireless Sending the
	Programs
Brightness Automatically Adjustment	The brightness could be automatically
	adjusted based on the real time
	environmental situations or the set
	schedules.
Fixed(Set) Time Playing/Timing Playing	To play the programs as in "player
	list"orders.
Timing Switch On/Off	Through the Management System to get
	the centralized setting.
Management Software	The Application is supported to be used
	on any Android or IOS devices.

www.mooncell.com.cn WhatsApp:+8618673763873

# **Product Parameters**

#### **Basic Parameters**

	Processor: 4-Core CPU + GPU				
Performances	Memory: 1G DDR3				
	Flash Memory: 8G EMMC				
	Medias Supported: support video, picture, text playback				
Network access method	LAN,WIFI AP,4G Module				
Processing	The maximum loading capacity:190 thousand pixels				
Ability	Widest: 1920 pixels , Highest: 1080 pixels				

MBR16 Specifications
www.mooncell.com.cn
WhatsApp:+8618673763873

# Hardware Interface



# Interface Illustration

Name	Illustration
PWR	5V power interface, 4P-2.54MM socket
AUDIO OUT	Audio output interface, 1/8" (3.5mm) TRS plug
ETHERNET	Ethernet interface

Web:www.mooncell.com.cn

Skype:cheersnigel

ADD: 1st Floor, Comprehensive Building, Baoshi South Road, Shiyan Town, Baoan District,

Shenzhen,PRC

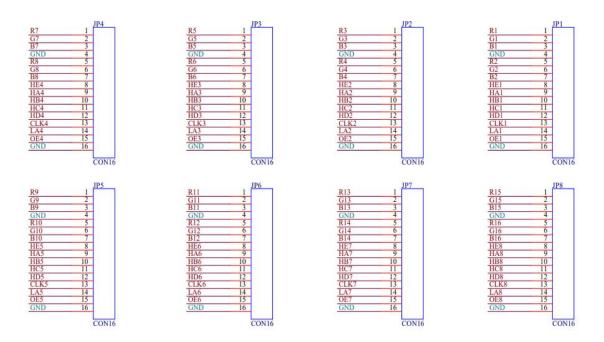
# **MBR16 Specifications**

www.mooncell.com.cn

WhatsApp:+8618673763873

USB	USB2.0*2, can be connected to external U disk storage or other
	devices
WiFi-AP	WiFi AP Antenna Interface
GPS antenna	GPS antenna interface, optional
4G antenna	4G antenna interface, optional
SIM card slot	Support 4G Micro sim card, select 4G module according to the actual network.
RS485	4P-2.54MM connector, can be connected to external brightness sensor
HUB75E Interface	16x HUB75E interfaces, to be connected to the led screen
3PIN relay switch	Control DC switch, maximum voltage 30V, maximum current 3A

#### 32 Sets of Parallel Connection Data PIN Definition



#### JP1—JP16 Definition

Web:www.mooncell.com.cn

Skype:cheersnigel

ADD: 1st Floor, Comprehensive Building, Baoshi South Road, Shiyan Town, Baoan District, Shenzhen, PRC

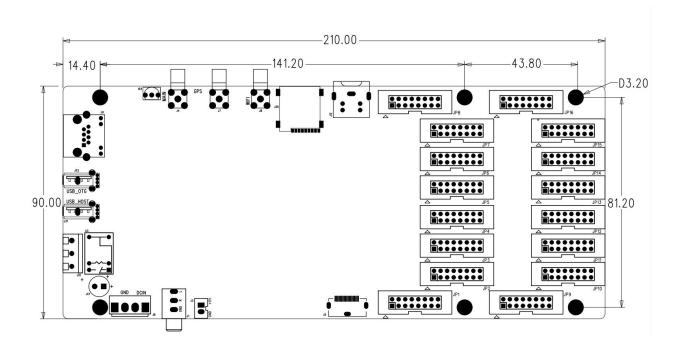
### **MBR16 Specifications**

www.mooncell.com.cn

WhatsApp:+8618673763873

	i							
PIN#	1	3	5	7	9	11	13	15
Definition	R0	B0	R1	<i>B1</i>	A	C	CLK	OE
PIN#	2	4	6	8	10	12	14	16
Definition	<i>G0</i>	GND	G1	E	В	D	LAT	GND

#### Product Dimensions(Unit: mm)



www.mooncell.com.cn WhatsApp:+8618673763873

# **Product Specifications**

Basic Specifications				
Electronic	Input voltage	5V		
Parameters	Rated power consumption	10W		
Working	Operating temperature	-20°C~70°C		
Environment	Operating humidity	0RH-85%RH, no condensation		
Packaging Information	Carton + bubble bag			
Power	Input voltage: DC 5V/3A			
Product Dimensions	210mm X 90mm X 24mm			
Product Weight	206g			
Accessories List	1xMB75E, 1xWIFI antenna, 1x4G antenna, 1xcertificate			

Add:1-3 Floor,Building#12,Third Industrial Zone,Luozu Community,Shiyan Street,Baoan District,Shenzhen,PRC. 第 8 页

**Tel#:** 0755-23975634 29095400 **Website:** www.mooncell.com.cn