



MC75E Asynchronous Control Card

Specification V3.4

1 Product Overview

Product Introduction

MC75E control card adopts high-performance 4-core CPU+GPU chip-set and integrates sending and receiving card as one, it has 8x HUB75E interfaces, it could support the maximum 16 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 your 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).

2 Function Introduction

- ◆ 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, VOB, 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 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

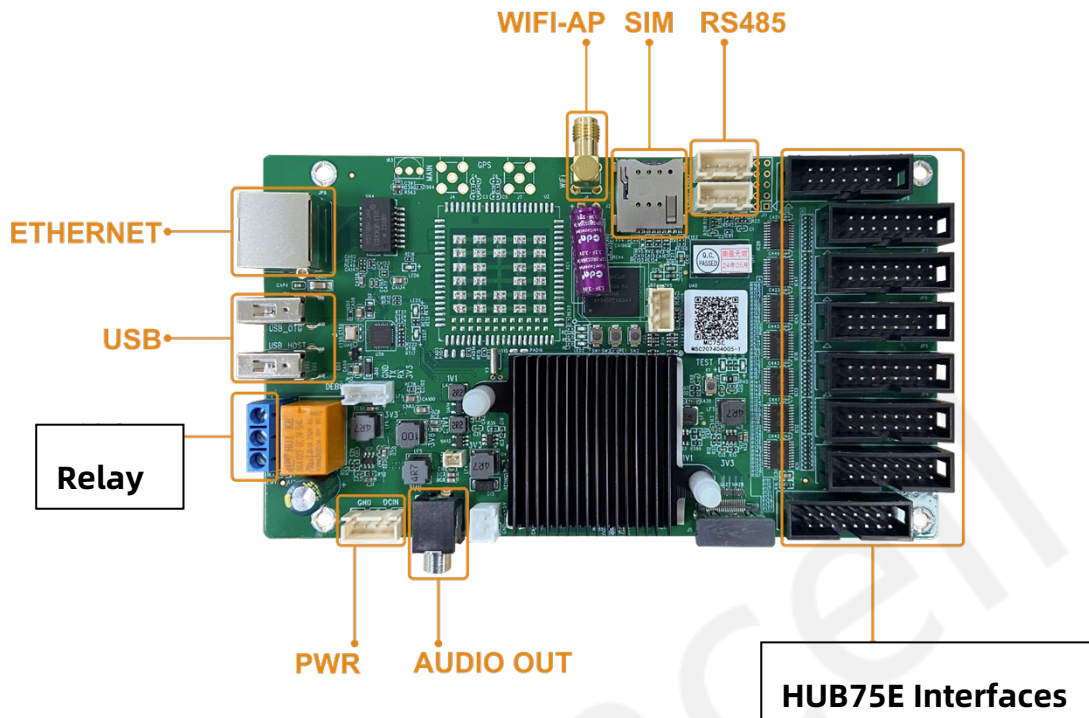
Network Communication	LAN/WIFI
Programs Update	USB Flash Disk Plug and Play,Terminal Ethernet Management
Device Management	PC,Android,IOS and some other Smart Terminal Devices
Wireless Control	Brightness Real Time Adjustment,On/Off Display,System Parameters Settings,Programs Play Management,Wireless 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.

3 Product Parameters

Basic Parameters

Performances		Processor: 4-Core CPU + GPU Memory: 1G DDR3 Flash Memory: 8G EMMC Medias Supported: support video, picture, text playback			
Network access method		LAN,WIFI AP,			
Processing Ability		Widest:1920 pixels, Highest:1080 pixels			
RGB Parallel	Data Ports/ Interfaces/QTY	Driver IC	Maximum Loading Capacity	Loading Capacity After lightness Calibrating (Pixels)	Loading Capacity after Color Calibrating
16 Groups	HUB75E/8	Conventional	512*384	512*256	256*320
		PWM	512*512	512*512	256*320
Scanning Lines Supported					
1-64 Scan					

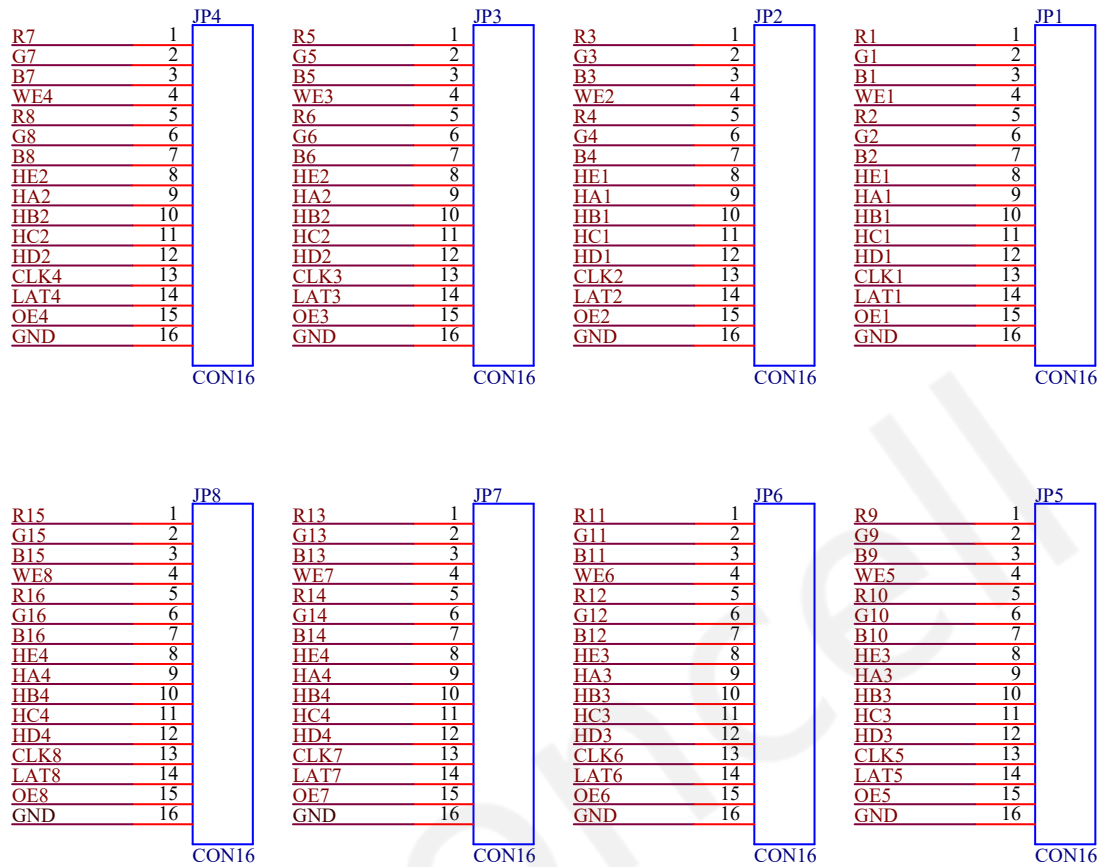
Hardware Interface



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
USB	USB2.0*2, can be connected to external U disk storage or other devices
WiFi-AP	WiFi AP Antenna Interface
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	8x HUB75E interfaces, to be connected to the led screen
3PIN relay switch	Control DC switch, maximum voltage 30V, maximum current 3A

16 Sets of Parallel Connection Data PIN Definition



JP1—JP8 Definition

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

4 Product Specifications

Basic Specifications		
Electronic Parameters	Input voltage	5V
	Rated power consumption	15W
Working Environment	Operating temperature	-20°C~70°C
	Operating humidity	0RH-85%RH, no condensation
Packaging Information	Carton + bubble bag	
Power	Input voltage: DC 5V/3A	
Product Dimensions	225*178*70mm	
Product Weight	0.34 KG	
Accessories List	MC75E*1, network cable*1, 2.4G WIFI antenna*1, 4 Pin power cord*1	