



MP401 Commercial Led Display Controller

Specification V3.0

Shenzhen Mooncell Electronics Co., Ltd

1 Product Overview

Product Introduction

MP401 is a 4K * HDMI output network player launched by Mooncell, which supports Internet remote cluster control, supports multi-window playback, and supports rich media materials such as videos, pictures, text, documents, clocks, streaming media, web pages, weather, timers, segmented windows, etc

MP401 Media Player features high performance 4 Core CPU and it's a combination of the Player with the Sending Card(Integration). Given that the Player has a very high performance of the video processing. MP401 is quite small in size and low in power consumption and is suitable for a wide temperature range with easy installation and handy maintenance.

Product Features

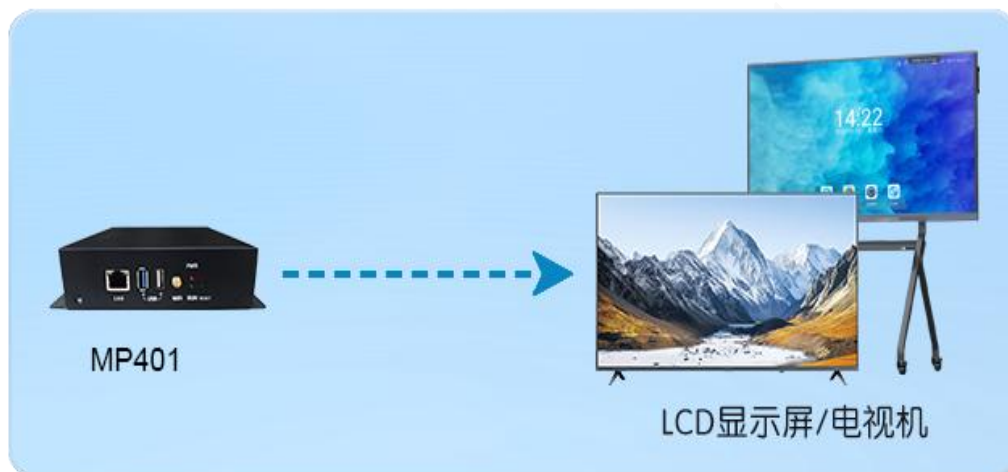
1. HDMI 2.0 Display Interface
2. Support H.265 hardware decoder, support decoding 4K@60HZ video source;
3. Support multi-window playback, freely set window size and position, and support window overlay; video window supports up to 4K × 2 or 1080P × 6 or 720P × 10 or 360P × 20
4. PC, Mobile Phones and Pad are supported to be used to control and

manage with the programs and its parameters.

5. It supports to use the USB Flash disk to update the programs, plug and play.
6. It supports to have multiple displays to work simultaneously (synchronized).
7. Rich and diverse media content: videos, images, text, documents, clocks, streaming media, web pages, weather, timers, etc
8. Support Internet remote cluster control, LAN and WIFI-FI connection.
9. Android 11 supported
10. Low Power Consumption, Low Heat Radiation, Stable & Reliable Performance and is suitable for wide temperature range.
11. Small Size & Light Weight with Easy Installation & Convenient Maintenance.

Application Scenarios

It could be widely used at commercial display fields such as various advertising led screen, digital signage, exhibition halls, etc., with significant advantages.



2 Function Introduction

Input
1. Support 1 Gigabit input network port for debugging parameters and sending programs. 3. Supports 1 channel USB 2.0 and 1 channel USB 3.0, which can be used to insert programs and expand capacity.
Output
1 HDMI 2.0 output interface, supports 4K display, supports a maximum width of 3840 pixels or a maximum height of 2160 pixels, and supports connecting monitors or LED video processors.

Audio & Video Performance:

multi-window playback	Supports custom setting of window size and position, and supports window overlay. Window (up to 4K × 2 or 1080P × 6 or 720P × 10 or 360P × 20)
media content	Supports HD videos, Pictures (Images), TXT, Weather Info, Clock and a variety of programs.
Video Format	Support MPG, MOV, MP4, MKV and other common video formats.
Audio Format	Support MPEG-1 Layer III, AAC and other audio formats.
Image Format	Support JPG, PNG, GIF and other image formats.
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:

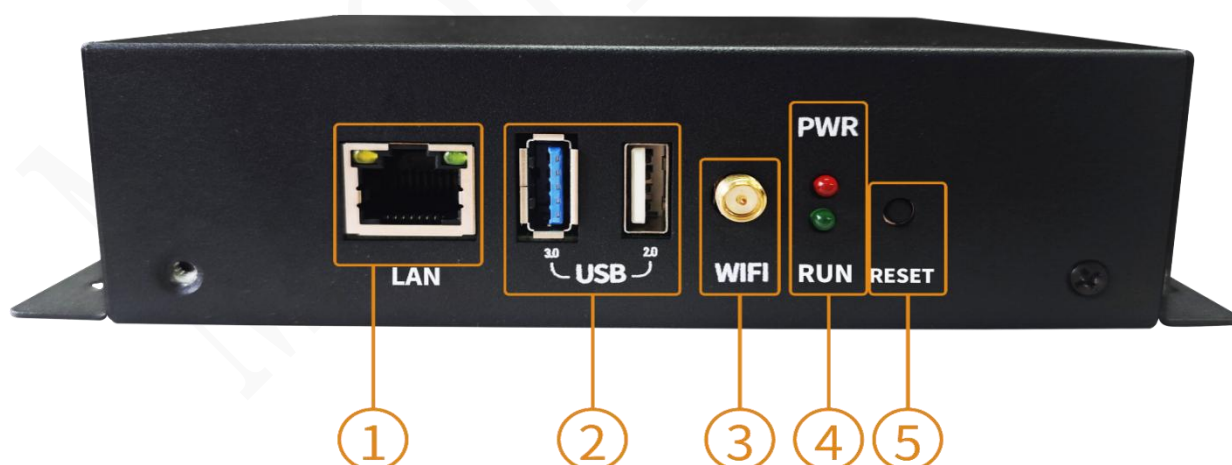
Network Communication	LAN/WIFI
Programs Update	USB Flash Disk Plug and Play,Terminal Ethernet Management
Device Management	PC,Android,IOS and some other Smart Terminal Devices
Wireless Control	Brightness Real Time Adjustment,On/Off Display, System Parameters Settings,Programs Play Management, Wireless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

Performance Parameters	Processor:4 Core CPU Memory:4G DDR3 Flash Memory: 64G EMMC
Decoding capability	1080P60 H.265, H.264 encoding 4K H.264/H.265/VP9 60fps Video Decoder
Network Accesses	LAN
Receiving Supported	Card Mooncell Receiving Cards

Hardware Introduction



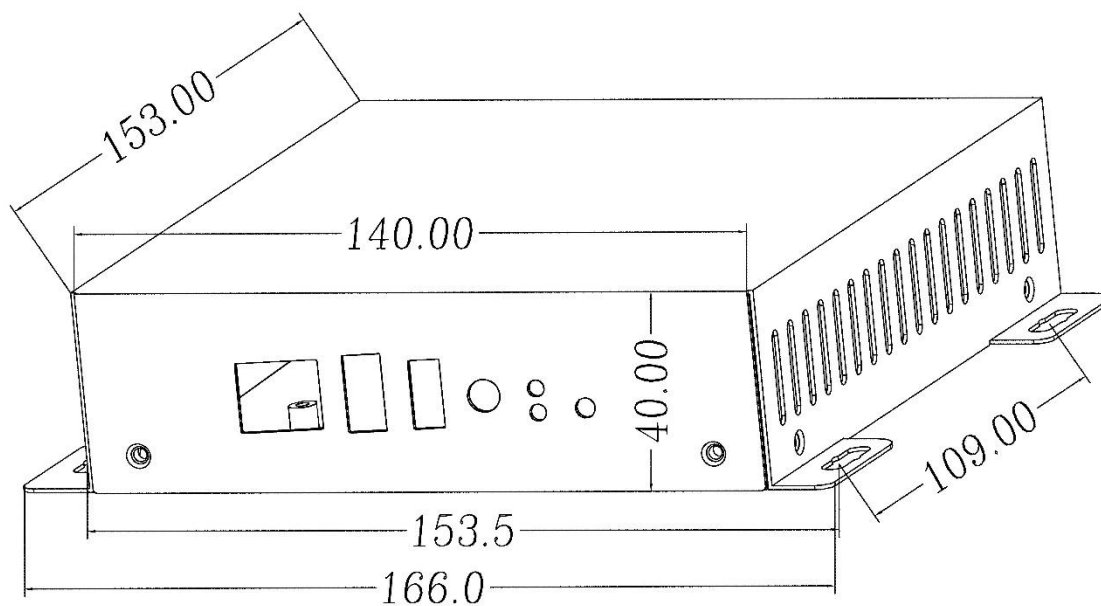
Front Panel

Interface Introduction

Interface Name	Interface Introduction
LAN	LAN Port, for debugging parameters and sending programs.
USB	USB3.0 × 1, USB2.0 × 1; support Android mouse, keyboard, U disk to play programs and update programs
WIFI	Connect the Wi-Fi antenna to enhance the wireless signal
Indicator	PWR: power indicator, the green light is always on, and the power input is normal; RUN: System operation indicator light, green flashing indicates that the operating system is running normally; normally on/off indicates that the operating system is running abnormally;
RESET	Factory Setting



Interface Name	Interface Introduction
DC 12V	Power Input Interface:5.5*2.5MM
HDMI2.0	supports connecting monitors or LED video processors.

Dimensions:**Unit:mm**

4 Product Specifications

Specifications

Electric Parameters	Input Voltage	12V
	Rated Power	15W
Operating Environment	Operating Temperature	-20℃ - 70℃
	Operating Humidity	10%RH-90%RH No Solidification
Dimensions	245mm×148.75mm×44.5mm	
Net Weight	0.524 Kg	
Packaging Info	Standard List	1 × network cable, 1 Wi-Fi antenna, 1 × HDMI cable, 12V/2A power adapter (5.5mm × 2.1mm standard interface), 1 × certificate

Precautions

- ① The installation should be done by the professionals.
- ② It has to be anti static.
- ③ Water proof and dust proof.