

# **CP4H Video Playback Box**



**Instruction manual**

## Version Record

| Version number | Change details                                                                                                                   | Release Time |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|
| V1.0           | First release                                                                                                                    | 2021.10.25   |
| V1.1           | Correction of performance parameters with loaded information                                                                     | 2022.02.25   |
| V2.0           | Replace brightness, temperature and humidity, GPS interface to 3.81 Phoenix terminal<br>Correct performance parameter informatio | 2022.03.28   |
|                |                                                                                                                                  |              |



## CP4H Product Specification

### Overview

Nanjing Zelei electronic CP4H is an asynchronous multimedia player integrating transmitter card and playback terminal; compared with the traditional synchronous playback solution, it can reduce the need for computer playback terminal and facilitate control at any time; and can access external signals, synchronous input and asynchronous playback fast switching; strong performance, powerful function, and greater carrying capacity.

It is promising in the field of advertising display such as mirror screen, light pole screen and full color doorway.



产品特点

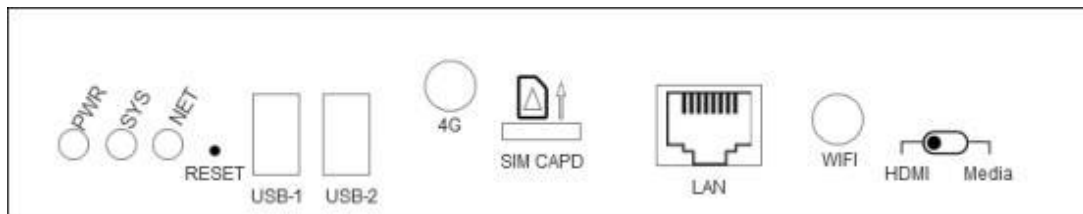
### Product Features.

- Gigabit network port\*4, single port 65W points, the whole machine with 235W points, the widest 3840, the highest 2000.
- WIFI, Ethernet port, U disk multiple communication methods
- Built-in 8GB (5G available for users), supports USB flash drive expansion
- 3.5mm audio output, simultaneous audio and video output
- HDMI input and output support, full-screen adaptive playback
- Support multiple windows for simultaneous playback of multiple clips on screen
- Support optional relay control, can remotely control external power switch
- On-board brightness sensor interface to automatically adjust the screen brightness according to the ambient brightness
- New Kommander PE program editing, drag-and-drop operation, do what you want
- Simple APP for full control of screen tuning, editing, and management, so you can play with the

big screen at your fingertips.

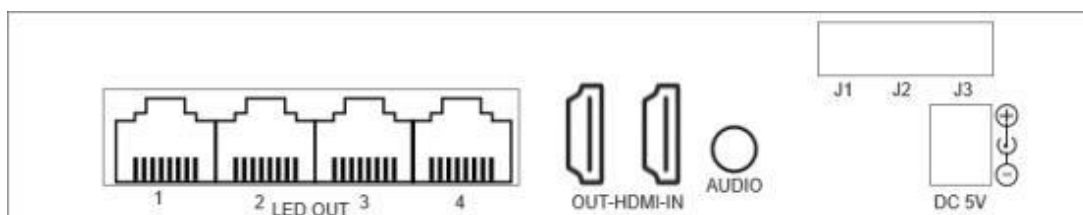
### Panel Description

## Front Panel



| 名称            | 功能说明                                                                                                                                                                                                                                               |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYS           | Operation status indicator<br>sys is on when the system and app start normally.<br>When the player app is abnormal, sys blinks, 1 time per second<br>During system upgrade, sys blinks rapidly, 4 times per second                                 |
| NET           | Connection status indicator<br>NET light is on when the client is connected, otherwise it is not on.<br>When connecting to the cloud platform, the NET flashes once per second.<br>When uploading programs, NET blinks rapidly, 4 times per second |
| PWR           | Power indicator, long light indicates normal power supply                                                                                                                                                                                          |
| RESET         | Restore factory settings, press and hold for 5 seconds to take effect                                                                                                                                                                              |
| USB           | USB2.0 *2, update programs via USB stick                                                                                                                                                                                                           |
| 4G (Optional) | 4G antenna interface                                                                                                                                                                                                                               |
| SIM           | 4G card slot, support three major carriers 4G card                                                                                                                                                                                                 |
| LAN           | 100 Gigabit input network port, access to LAN, can be directly connected to PC side                                                                                                                                                                |
| WIFI          | enna Interface                                                                                                                                                                                                                                     |
| HDMI--Media   | Dual mode switch button<br>HDMI: Synchronous mode<br>Media: Asynchronous mode                                                                                                                                                                      |

## Rear Panel



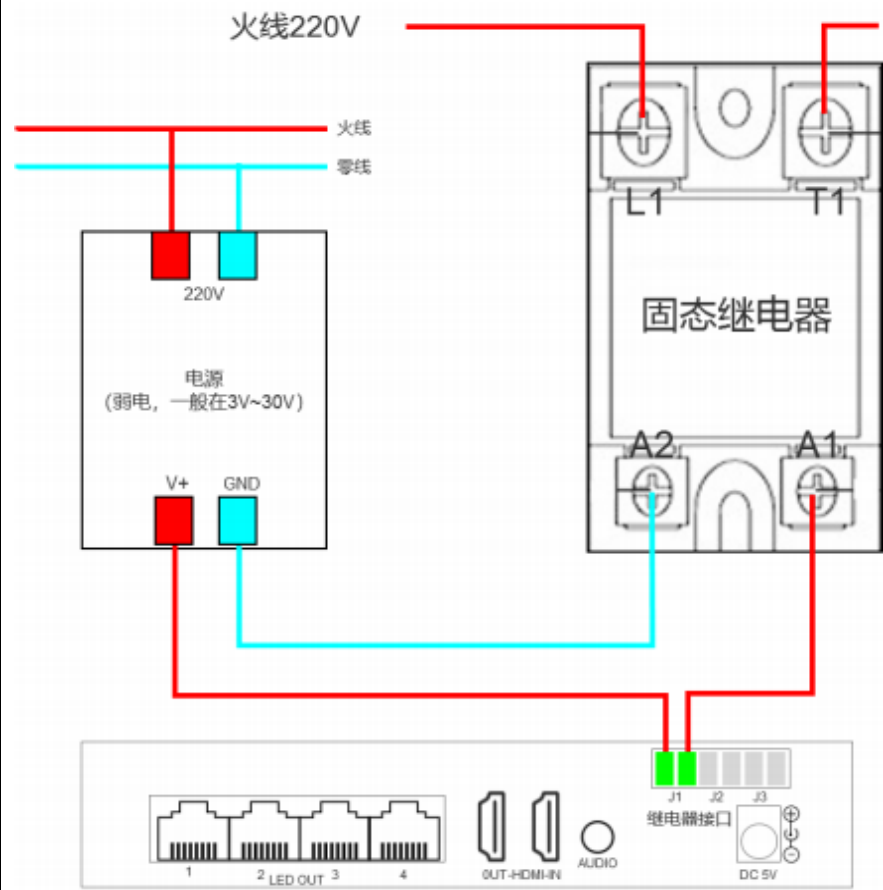
| name       | Function information                                                                           |
|------------|------------------------------------------------------------------------------------------------|
| LED OUT1-4 | Four gigabit output network ports, connect to the full range of Kevlar receiver cards          |
| AUDIO      | 3.5mm audio output port                                                                        |
| HDMI       | IN:HDMI 1.3 input interface, external signal<br>OUT:HDMI 1.3 output interface, loop-out signal |

|          |                                                                                           |
|----------|-------------------------------------------------------------------------------------------|
| J1-J2-J3 | Relay interface to control external power switch<br>DC: max. voltage 30V, max. current 3A |
|----------|-------------------------------------------------------------------------------------------|

AC: Maximum voltage 250V, maximum current 3A

Note: DC power is recommended, it is not recommended that the relay directly control AC power, if you need to control AC power, it is recommended to use

The following diagram wiring method



|       |                                            |
|-------|--------------------------------------------|
| 5V DC | Provides 5V/3A power supply DC5.5x2.1x10mm |
|-------|--------------------------------------------|

Side panels



| Name  | Function Description                                                                            |
|-------|-------------------------------------------------------------------------------------------------|
| LIGHT | Brightness sensor interface (module to be purchased separately)                                 |
| TEMP  | Temperature and humidity sensor interface (module to be purchased separately)                   |
| RS232 | RS232 interface, external GPS module can be connected (module needs to be purchased separately) |

## Parameter Specification

| External Interface Type          |                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Gigabit output network port*4    | Output signal to receiver card                                                                                                            |
| Audio output port*1              | 1/8" (3.5mm)TRS Plug Output                                                                                                               |
| USB2.0*2                         | Expandable storage (USB stick or SD card, up to 128G)                                                                                     |
| 100 Gigabit input network port*1 | Access to LAN, cluster control                                                                                                            |
| WIFI                             | WiFi AP+STA Dual WiFi mode, can be used as a hotspot for cell phones and computers to connect                                             |
| HDMI                             | HDMI Input and Output                                                                                                                     |
| LIGHT (Optional)                 | External brightness sensor to control the screen brightness according to the ambient brightness (module needs to be purchased separately) |
| TEMP (Optional)                  | External temperature and humidity sensor to obtain the ambient temperature and humidity (module needs to be purchased separately)         |
| Relays (Optional)                | Can be used to control external power switches (module sold separately)                                                                   |
| 4G (Optional)                    | Access to WAN (module to be purchased separately)                                                                                         |
| GPS (Optional)                   | Precise positioning, precise timing, multi-screen synchronization (module needs to be purchased separately)                               |
| DC Power input                   | DC 5V/3A Electricity supply                                                                                                               |

| Performance Parameters        |                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Hardware Performance          | 1.6GH, Quad-core CPU,3D GPU<br>1GB@600MHz DDR3 High-speed memory<br>Support 1080p@60fps Hard Decode Playback<br>Support 1080p@30fps Hardware Coding |
| Storage Space                 | 8GB internal storage (5 G available to users)                                                                                                       |
| Load size                     | 650,000 dots for single port, 2.35 million dots for the whole machine, up to 3840 wide, up to 2000                                                  |
| Wifi Wifi Connection Distance | 20m (unobstructed)                                                                                                                                  |

| Support for multimedia formats |                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Video formats                  | AVI,WMV,MPG, RM/RMVB, VOB,MP4,FLV common video formats such as.<br>Can support multi-video simultaneous playback             |
| Audio Format                   | MPEG-1 Layer III, AACetc.                                                                                                    |
| Image format                   | Support bmp、jpg、png etc.                                                                                                     |
| Text form                      | Single-line text, static text, multi-line scrolling text, and office etc.                                                    |
| Clock                          | Real-time clock, multi-area clock display and management                                                                     |
| OSD                            | Support 32bit true color OSD, can be displayed in any position, support video/graphic mix, can superimpose graphic on video. |

| Whole machine specification |                      |
|-----------------------------|----------------------|
| Dimension                   | 190x139x38mm (L×W×H) |

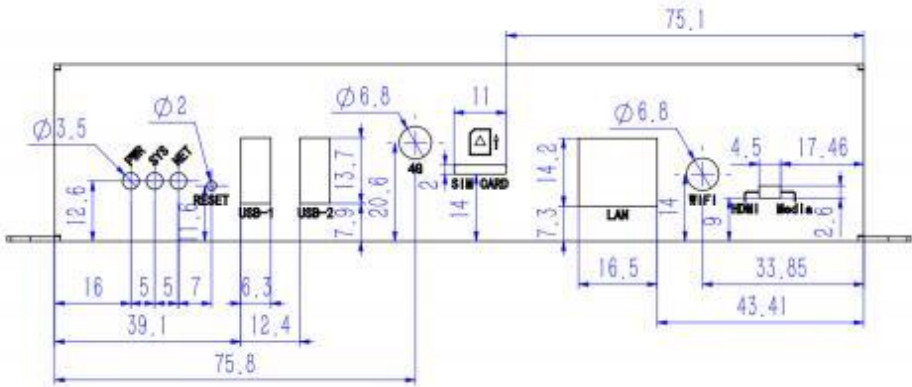
#### CP4H Product Specification

|                                                         |                                    |
|---------------------------------------------------------|------------------------------------|
| Supported Receiver Cards                                | ZELEI Full range of receiver cards |
| Number of received cards on board (single network port) | 200 (Single Network Port)          |
| Input adapter power supply                              | DC 5V/3A Electricity supply        |
| Power Rating                                            | 12W                                |
| Operating temperature                                   | -20°C -70°C                        |
| Operating humidity (%)                                  | 5%-95%                             |



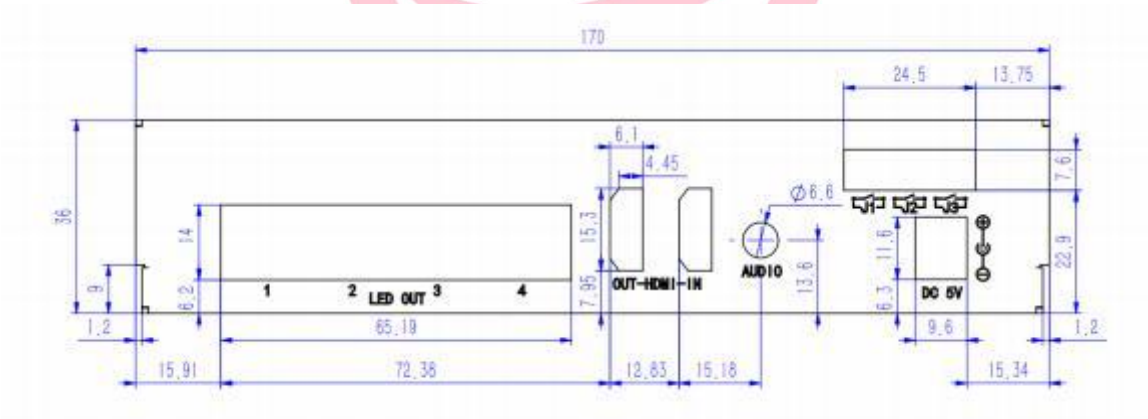
Annex: Dimensional drawing of the equipment

FrontPanel



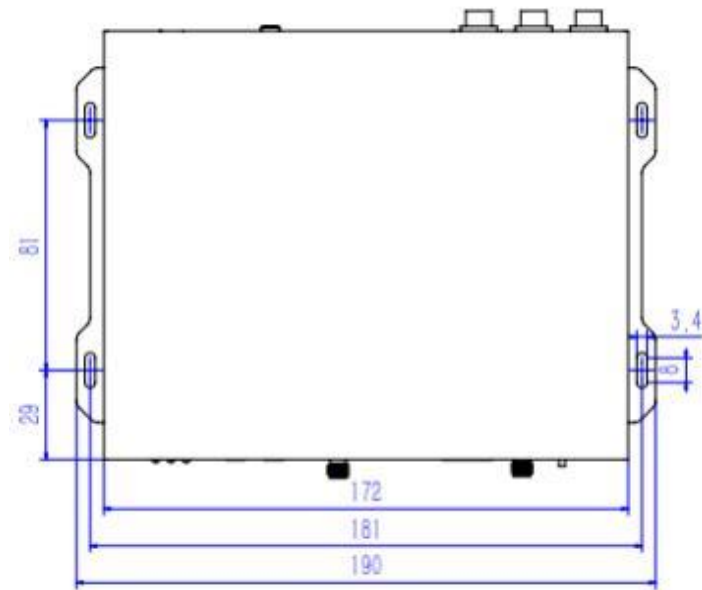
R

earPanel





底面



FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.