

MC4K

Multimedia Server

Specification V4.0



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1 Update Record

Document version	Release time	Update history
V4.0	July 15, 2025	first release

2 Product Introduction

MC4K Multimedia Broadcasting Control Server adopts an integrated customized industrial motherboard capable of delivering 1-channel 4K@60Hz video signal output. Paired with professional media playback control software, it supports creative splicing displays and diverse complex layout solutions to meet personalized presentation requirements.

3 Product Features

- Supports 1-channel DP1.2 video output interface, single interface supports 4K@60Hz output
- Supports batch management and independent playback control for different LED displays
- Enables arbitrary image segmentation/recombination, geometric deformation, and rotation to accomplish splicing displays of various shapes and angles
- Compatible with mainstream video formats including but not limited to: Hap, HapQ, Hap Alpha, H.264 encoded MOV/AVI/MP4, etc.
- HAP format: Maximum support for 20Gbit bitrate and 4K*2K@60fps video playback
- Supports differential and asynchronous display of signals including NDI, RTSP, capture cards, etc.
- Allows saving multiple slice projects with seamless switching via control systems
- Features auto-start configuration and unattended timed activation mode
- Automatically loads project files and initiates playback upon startup
- Supports master/slave server modes with compatibility for third-party control consoles

4 Application Scenarios



5 Product Appearance

Front Panel



*Product images are for reference only. The actual product shall prevail upon purchase.

5.1 Interface Illustration

#	Name	Illustration
3	Power Restart	Restart the server device
1	Power switch	Switch server device
2	USB	2 × USB 3.0 interface

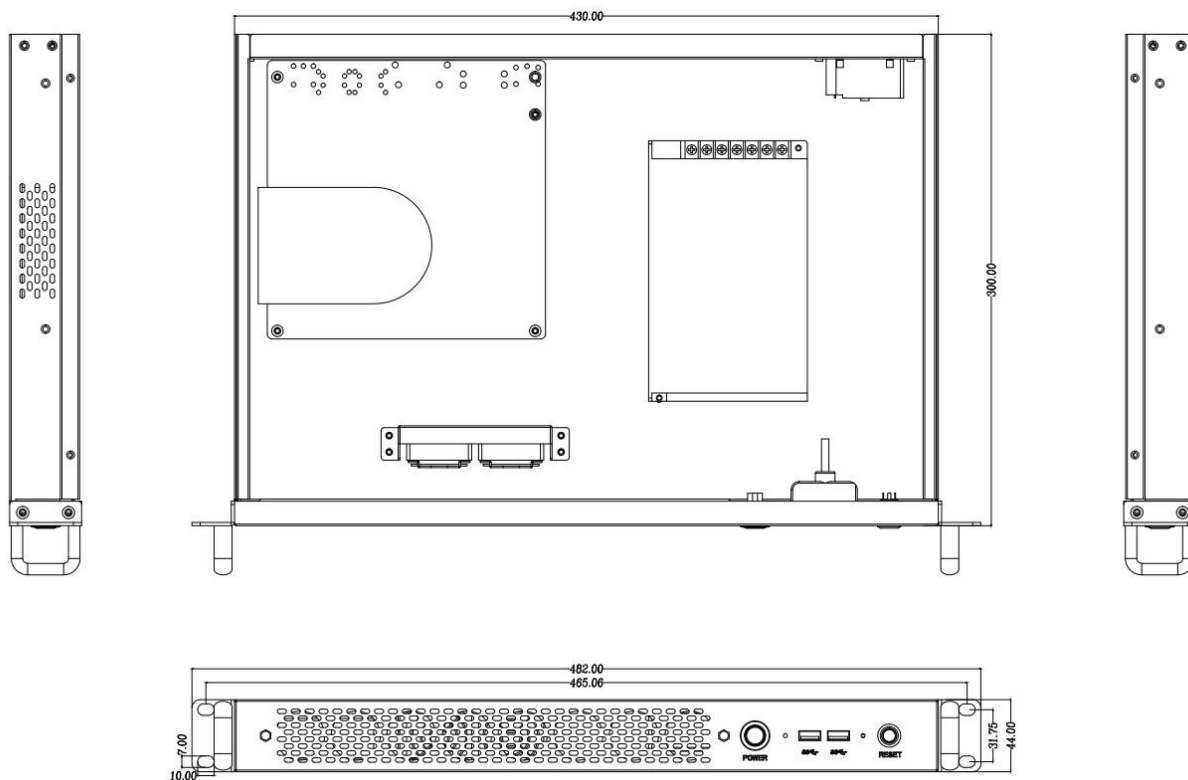
Rear Panel



*Product images are for reference only. The actual product shall prevail upon purchase.

#	Name	Illustration
1	HDMI	1 × HDMI2.0 output interface, support 3840 * 2160@60Hz resolution
2	DP	1×DP 1.2 output port, supporting 3840×2160@60Hz resolution
3	Type-c	1×Type-C port, USB 3.0-C protocol interface
4	USB	1×USB 3.0 port
7	LAN	1×LAN port, supporting Wake-on-LAN
8	USB	2×USB 3.0 ports
9	Audio Interface	Left and right channels, audio input/output
10	Power Supply	AC 100-240V power input connector

5.2 Product Dimensions



Tolerance: ± 0.3 Unit: mm

6 Product Parameters

6.1 Basic Parameters

Product name	Multimedia server (Control end)
Product model	MC4K
Hardware output	DP1.2×1、HDMI2.0×1
CPU	Base frequency 4.3 GHz, Turbo Boost up to 5.0 GHz
Memory	16GB DDR5 RAM
Hard Drive Capacity	256GB M.2 high-speed solid-state drive
Power Supply	12V power supply
Chassis	1U industrial control server chassis
Broadcast Control Software	M2 broadcast control software

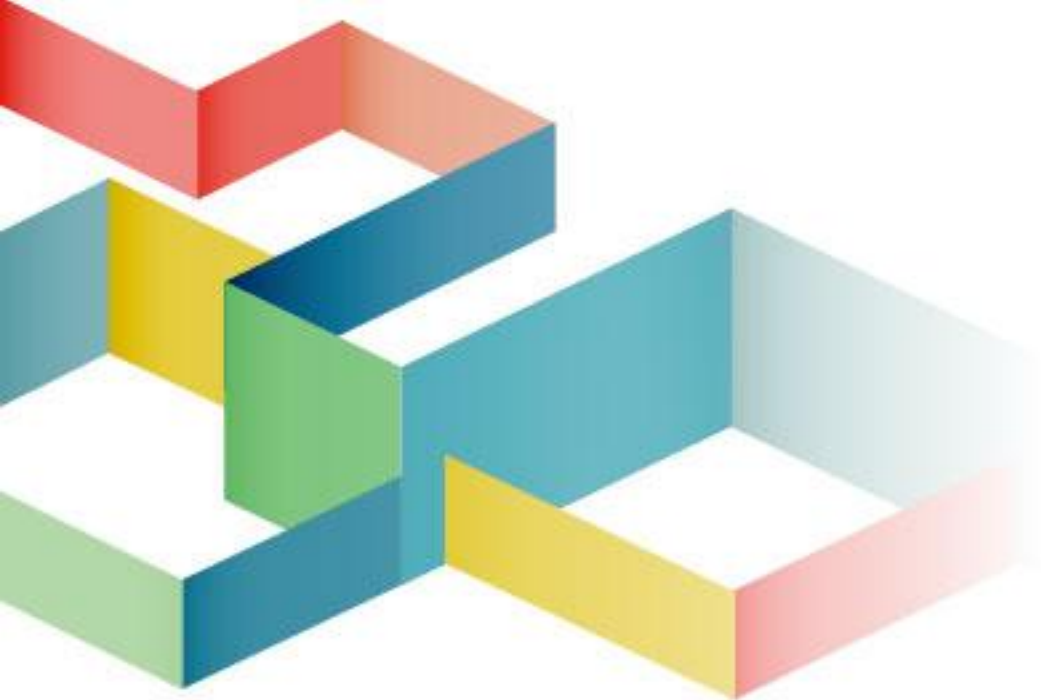
6.2 Specifications

Electrical parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	12V
Working environment	Operating temperature	0°C~+40°C
	Working humidity	0%RH~80%RH, non-condensing
Storage environment	Storage temperature	-10°C~+60°C
	Storage humidity	0%RH~95%RH, non-condensing
Chassis size	482mm×300mm×44mm	
Net weight	3.91Kg	
Packaging information	Outer box size	540mm×440mm×130mm
	Accessories	1 × power cord, 1 × certificate, 1 × Broadcast Control Software Dongle

*Current and power consumption may vary depending on factors such as product usage, environment, and settings.

7 Precautions

- High voltage hazard: This product operates at AC 100V~240V.
- Do not allow liquids or metal fragments and other conductive materials to enter the device, to prevent safety accidents.
- Please use the device in a dry and clean environment



National after-sales services hotline: 400-881-3531

Official website: www.mooncell.com.cn

Address: Mooncell Building, Third Industrial Zone, Baoshi South Road,
Shiyan Street, Baoan District, Shenzhen

