

OVP-MT10

Play Control processor

Product specification V1.0

onbon

Updating record

version	date	specification
V1.0	2025-5-15	The first version

CATALOG

1. Instruction4

2. Features 4

 Input&Output4

 System functions4

 Operation Control 5

3. Panel Instruction 6

 Front Panel 6

 Back Panel 7

4. Dimension8

5. Application Scenarios9

6. Product specifications 10

7. Media decoding specifications10

 Picture 10

 Video 11

1. Instruction

OVP-MT10 play control processor integrates Android system and sending functions, supports 3 inputs, and 10 Gigabit network ports. It is a play control processor launched for multimedia display applications such as office meetings, advertising media, and exhibition halls. It supports multi-terminal program play control: smart play control by mobile phone APP, convenient play control by remote control, remote play control by cloud platform, PC software playback, and U disk playback.

2. Features

Input&Output

- 3 HDMI2.0 inputs;
- 2 USB2.0, 1 USB3.0 input. Can be used for multimedia material playback and function expansion;
- 10 network outputs, one single machine supports 6.55 million pixels, maximum horizontal: 3840 pixels, maximum vertical: 2160 pixels;
- 1 3.5mm audio output;
- Supports display screen output scaling, width range 64 ~ 3840, height range 64 ~ 2160;
- Supports 4K*2K@60Hz input and output, and well supports multimedia display applications such as office meetings, advertising media, exhibition halls, etc.

System functions

- Desktop UI system is based on Android 11, which can flexibly add the third-party APP applications;
- Supports multiple screen projection methods and multiple terminals for simultaneous projection, including Windows, Mac OS, iOS, and Android systems, making it more flexible;
- Support whiteboard writing and annotation, making communication smoothly;

- Powerful processing performance;
 - Quad-core A55 ARM processor, main frequency 1.92GHz;
 - Support H.264, H.265 4K@60Hz HD video decoding;
 - Onboard 4GB RAM;
 - Default storage is 32GB.
- Multi-terminal program play control
 - Smart play control via mobile phone APP: You can install LedsuiteAPP on your mobile phone to send and control programs;
 - Convenient remote control: local program control and simple program production can be performed on the display screen;
 - Cloud platform remote play control: programs can be made and released through cloud platform;
 - PC software: You can create and publish programs through LedshowSuit PC software
 - U disk: support stand-alone playing, plug-and-play or copy playing.
- Dual Wi-Fi mode. You can surf the Internet with Wi-Fi and turn on the wireless hotspot at the same time.
- Supports adjusting volume, brightness and other parameters to adapt to different application scenarios.

Operation Control

- Support multi-terminal program play control: APP, IR controller, iLEDCloud, PC software playing, USB disk playing;
- Gigabit Ethernet control port, supporting TCP/IP protocol;
- Support infrared standby wake-up, standby enter to low power consumption mode;
- Supports connection to relays, which is convenient to manage LED display power supply;
- Supports Bluetooth 5.0, and can connect to common peripherals such as Bluetooth voice remote control, Bluetooth mouse, Bluetooth keyboard, Bluetooth speakers, etc.
- Supports connection of common peripherals such as mouse, camera, amplifier, and speaker.

3. Panel Instruction

Front Panel



Name	Specification
Power switch	Power switch
Infrared receiver	Infrared receiver
LED status indicator light	Red light: light on when the device is turned on, light off after turning on, light on when in standby; Green light: Always on: The device is running normally. Off: Not running
USB2.0	<p>When connecting USB flash drive as an input source, the requirements for USB flash drive and files are as follows:</p> <p>U disk file system: supports NTFS, FAT32 and FAT16, does not support exFAT (FAT64), and USB disk cannot be partitioned and used as a system boot disk;</p> <p>Supported video formats: AV1,H.265(HEVC),VP9,AVS2,H.264,MPEG1/2,MPEG4,WMV/VC-1,AVS-P16,AVS-P2. Note: When the video file format is AV1, H.265 (HEVC), or VP9, the maximum supported resolution is 8Kx4K@30fps or 4Kx2K@60fps. When the video format is AVS2, the maximum supported resolution is 4Kx2K@60fps. When the video format is H.264 AVC, the maximum supported resolution is 4Kx2K@30fp. The rest of the video file formats support 1920x1080@60fps.</p> <p>Supported graphic formats: JPG、JPEG、PNG、BMP、GIF</p> <p>U disk play mode: supports video playing, picture playing, video and picture mixed playing.</p>

Back Panel

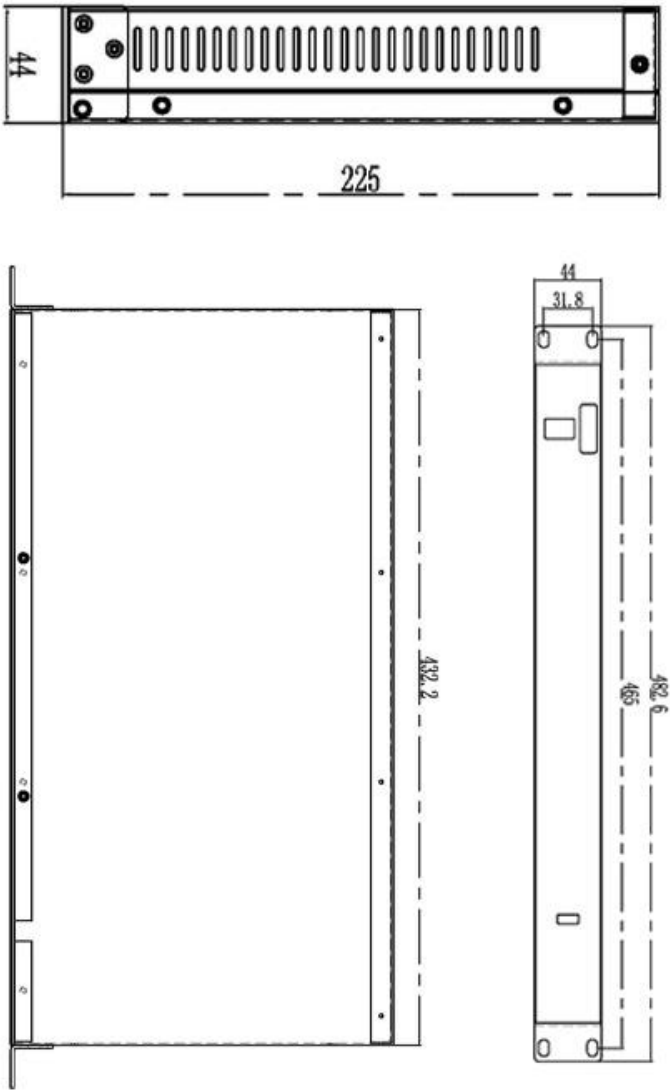


Interface type	Port	说明 Specification
Input port	HDMI2.0 1~3:	<p>3×HDMI 2.0</p> <ul style="list-style-type: none"> ◆ Maximum resolution: 3840*2160@60Hz; ◆ Minimum resolution: 800*600@60Hz; ◆ Support custom resolution; ◆ Support 30/50/60Hz; ◆ Support interlaced signal input; ◆ HDCP 1.4~2.3
	USB 2.0×1、 USB 3.0×1	<p>Supports connecting common USB devices such as mouse, keyboard, U disk, etc.</p> <p>U disk file system: support NTFS、FAT32and FAT16, don' t exFAT (FAT64) , also U disk cannot be partitioned and used as a system boot disk;</p> <p>Supported video formats: AV1,H.265(HEVC),VP9,AVS2,H.264,MPEG1/2,MPEG4,WMV/VC-1, AVS-P16,AVS-P2.</p> <p>Note: When the video file format is AV1, H.265 (HEVC), or VP9, the maximum supported resolution is 8Kx4K@30fps or 4Kx2K@60fps. When the video format is AVS2, the maximum supported resolution is 4Kx2K@60fps. When the video format is H.264 AVC, the maximum supported resolution is 4Kx2K@30fp. The rest of the video file formats support 1920x1080@60fps.</p> <p>Supported graphic formats: JPG、JPEG、PNG、BMP、GIF</p> <p>U disk play mode: supports video playing, picture playing, video and picture mixed playing.</p>
	AV IN	Video input port
Output port	Gigabit	6 gigabit output port, connect to receiving cards.
	AUDIO OUT	Audio output port
	SPDIF	Optical digital audio output
Control port	LAN	Network communication interface, connecting to external network

	I/O terminal	IO1、IO2、IO3、G
	RS232	TX、RX、G
	RS485	A、B、G
Antenna port	WIFI-AP 1~2	Connect WIFI antenna/Bluetooth antenna. (Controller acts as a hotspot, allowing the device to connect to controller WIFI)
	WIFI STA	Connect WIFI antenna. (The controller is connected to external WIFI network)
Power port	100-240V	

4. Dimension

单位: mm



5. Application Scenarios

Led screen



Illustration:

PTB1215 transmitter for high-definition wireless projection is not included in OVP-MT10 play control processor product package, users need to place an order separately.

6. Product specifications

Electrical specifications	Input voltage	100-240V~50/60Hz
	Power	≤50W
Storage	running storage	4GB
	storage	32B
Working environment	temperature	-30°C ~ 70°C
	humidity	15%~85%
storage environment	temperature	-40°C ~ 80°C
	humidity	0%RH ~ 95%RH
Specification	dimension	482.6mm×225mm×44mm
	case	1.5U case
	Weight	≤3.5Kg
Software	LedShowsuite	

7. Media decoding specifications

Picture

category	decode	size	format	notes
JPEG	JFIF file format 1.02	16×16 pixels to 4096×2160 pixels	JPG、JPEG	support SRGB JPEG support Adobe RGB JPEG
BMP	BMP	16×16 pixels to 4096×2160 pixels	BMP	N/A
GIF	GIF	16×16 pixels to 4096×2160 pixels	GIF	N/A
PNG	PNG	16×16 pixels to 4096×2160 pixels	PNG	N/A
WEBP	WEBP	16×16 pixels to 4096×2160 pixels	WEBP	N/A

Video

category	decode	resolution	max FPS	max bit rate	format	notes
MPEG-1/2	MPEG-1/2	48×48 pixels to 1920×1088 pixels	30fps	80Mbps	MPG、VOB、TS	support Field Coding
MPEG-4	MPEG-4	48×48 pixels to 1920×1088 pixels	30fps	38.4Mbps	AVI、MKV、MP4、MOV、3GP	don' t support MS MPEG4、v1/v2/v3、GMC
H.264/AVC	H.264	48×48 pixels to 4096×2304 pixels	2304p@60fps	80Mbps	AVI、MKV、MP4、MOV、3GP、TS、FLV	support FieldCoding、MBAFF
MVC	H.264 MVC	48×48 pixels to 4096×2304 pixels	2304p@60fps	100Mbps	MKV	Only support StereoHigh Profile
H.265/HEVC	H.265/HEVC	64×64 pixels to 4096×2304 pixels	2304p@60fps	100Mbps	MKV、MP4、MOV、TS	Support MainProfile、Tile& Slice
GOOGLE VP8	VP8	48×48 pixels to 1920×1088 pixels	30fps	38.4Mbps	WEBM、MKV	N/A
GOOGLE VP9	VP9	64×64 pixels to 4096×2304 pixels	60fps	80Mbps	WEBM、MKV	N/A
H.263	H.263	SQCIF(128×96) QCIF(176×144) CIF(352×288) 4CIF(704×576)	30fps	38.4Mbps	3GP、MOV、MP4	Don' t support H.263+
VC-1	VC-1	48×48 pixels to 1920×1088 pixels	30fps	45Mbps	WMV、ASF、TS、MKV、AVI	N/A

Shanghai ONBON Technology Co.,Ltd (Headquarters)

Address: 7 Floor, Tower 88, 1199#, North Qinzhou Road, Xuhui District, Shanghai City, China

Tel (wechat): +86-15921814956 +86-15800379719 +86-15850351852

Email: onbon@onbonbx.com

Website: www.onbonbx.com

iLEDCloud

Website: <http://www.iledcloud.com/>

