

# TS4000 Multimedia Server **specification**

## Update log

Document Version	Release time	Explain
V1.0	2025-9-26	editio princeps
V1.1	2025-10-31	The optional graphics card TGC4000a has been updated to support 4xDP1.4 resolution.

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## Product overview

The TS4000 is a premium multimedia broadcast control server that, when paired with the ThinkShow control software, delivers robust broadcasting capabilities with excellent scalability and operational stability. Widely adopted in performance venues, exhibitions, creative displays, and multimedia presentations, it comprehensively addresses complex scenario requirements from visual creativity to full-process management. As the core technological backbone for live performances, exhibitions, and display applications, this system features industrial-grade hardware design and redundant architecture, ensuring 24/7 high-stability operation. Its resilient design withstands signal interference and load fluctuations in challenging environments, guaranteeing uninterrupted performance and exhibition operations.

## Functional characteristics

- The single device supports up to 8 nos 4K@60Hz output channels with load, and supports video decoding and pixel-to-pixel display.
- Supports decoding up to 8 nos of 4K@fps 60 video.
- Supports both pre-edit and real-time editing modes.
- Visualize program scheduling and management.
- Media supports video, images, PPT, and audio.
- Supports batch import of media files and folders.
- Supports subtitles.
- Supports configuring playback material collections.
- Supports PPT control via a page-turning pen.
- Supports playback progress management.
- Supports program jump playback settings.
- Supports adjusting media width, height, and hierarchy.
- Enable transition effects.
- Support one-click black screen.

# Application scenarios

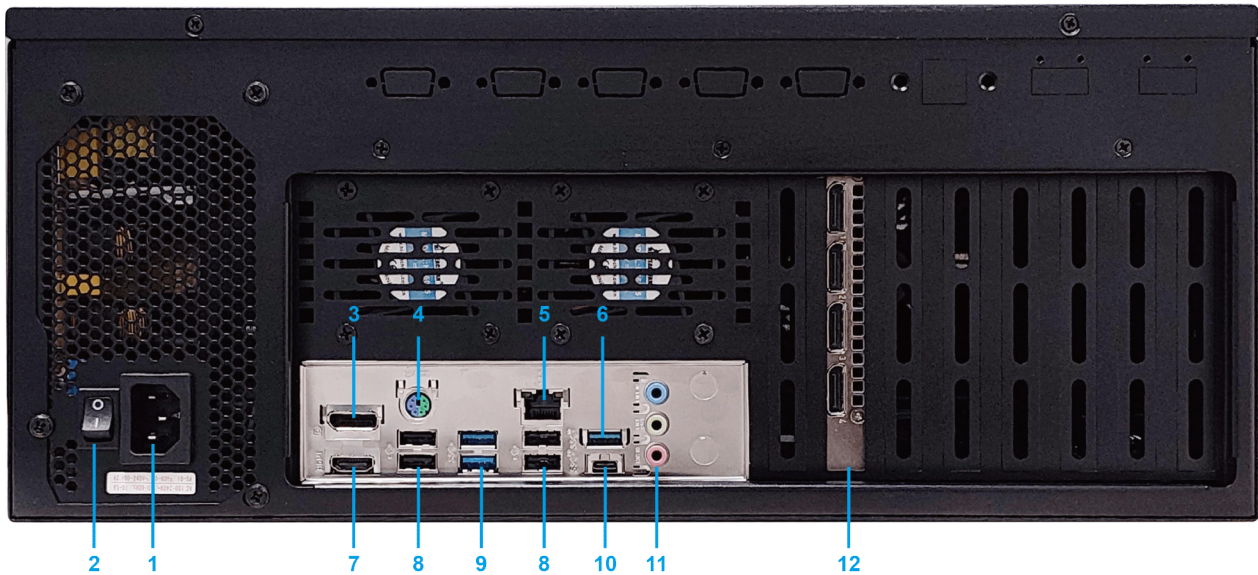


# Product Parameter

## Appearance Description



Front panel		
Number	Function	Explain
1	mains switch	Switchgear power supply
2	restart	Restart the device
3	USB	2 USB2.0 ports for external devices such as keyboards, mice, and USB drives



Back panel		
Number	Function	Explain
1	Power interface	100~240V 47-63Hz, 3.5A
2	Turn on key	Power switch
3	DisplayPort	1xDisplayPort Supports up to 4K@60Hz resolution Compatible with DisplayPort 1.4
4	PS/2	1×PS/2. Connect PS/2 mouse and keyboard
5	Realtek 2.5Gb	linked network
6	USB	2x USB 3.2 Gen 1 Type-A ports for external devices like keyboards, mice, and USB drives
7	HDMI	1xHDMI Supports up to 4K@60 Hz resolution; Compatible with HDMI 2.1
8	USB	2x USB 2.0, external keyboard, mouse, USB flash drive, and other devices
9	USB	2x USB 3.2 Gen 1 Type-A ports for external devices like keyboards, mice, and USB drives
10	USB	USB 3.2 Gen2 Type-A port supports external devices like keyboards, mice, and USB drives.
11	audio frequency	1xLINE IN (light blue): 3.5mm external audio input port for external audio devices 1xLINE OUT (emerald green): 3.5mm audio output for main channel audio, compatible with headphones or dual-channel speakers 1xMIC (pink): 3.5mm microphone audio input jack for microphone connection
12	output interface	4-channel/8-channel DP/MiniDP 1.4 port 4-channel or 8-channel display output interface, with a maximum resolution of 4096×2160 at 60Hz per channel

## **Specifications**

Model	TS4000
processor	Intel high-performance processors
System memory	32GB DDR4 RAM
caliche	1TB SSD
Broadcast Control Software	ThinkShow
radiator	Silent fan
chassis	4U
working temperature	-10~55℃
Working humidity	5%-95%(non-condensing)
input voltage	100~240V AC, 47-63Hz, 3.5A

## **Media Parameters**

Type	Form
video frequency	mp4、avi、mkv、flv、mov、wmv、mpefg
picture	Jpg、jpeg、bmp、png、gif、tif
Office	ppt、pptx、doc、docx、xls、xlsx、xla、xlt、xll、wks、et、dps、pdf



## Optional Accessories

Optional Accessories	Name	PPParameter
4K capture card	TCH4K1	joggle : HDMI Input: HDMI IN-4K/60Hz (backward compatible) Loop-out: HDMI LOOP-4K/60Hz (backward compatible) Capture: 4K/60Hz (backward compatible)
	TCH2K4	Input interface: HDMI*4 (1920*1080/60Hz) Capture interface: PCI-Ex4 (1920*1080/60Hz)
	TCH4K4	Input interface: HDMI*4 (4K/30Hz) Acquisition interface: PCI-Ex16 (4K/30Hz)
	TCS2K4	Input interface: SDI IN*4 (1920*1080/60Hz) Capture interface: PCI-Ex4 (1920*1080/60Hz)
video card	TGC4000a	VRAM: 20GB Output ports: 4xDP1.4 Supports resolution: 4x 4096x2160@120Hz 4x 5120x2880@60Hz 2x 7680x4320@60Hz
	TGC2000a	VRAM: 16GB Output interface: 4XMini DP1.4 Supports resolution: 4x 4096x2160@120Hz 4x 5120x2880@60Hz 2x 7680x4320@60Hz
Frame Sync Card	TGS200	Computer motherboard interface: PCI-e Maximum number of connections per GPU card: 4 Maximum number of sync cards per system: 2 Maximum number of monitors or projectors in the system: 32

## Dimensional drawing

Unit: mm, tolerance:  $\pm 0.1\text{mm}$

