

Advanced Wireless Meeting Gateway with USB-C

WPG-650UPH-B



DESCRIPTION

Taska WPG-650UPH-B is a versatile 3-in, 1-out video switcher and wireless presentation system designed for modern meeting and education environments. It combines simple, one-touch switching between wired and wireless sources with powerful BYOD (Bring Your Own Device) collaboration. Supporting a high 18Gbps bandwidth, it delivers stunning 4K@60Hz video quality. Teachers and presenters can easily share content from any platform (Windows, MacOS, Android, iOS) using native protocols like AirPlay, Miracast, and Chromecast, or via a dedicated 4K transmitter. The system also supports video conferencing (BYOM) by wirelessly connecting webcams and microphones to the host PC.

Built for ease of use and engagement, it features interactive tools like a digital whiteboard and screen annotation. Its flexible multi-screen function allows displaying up to 4 shared screens simultaneously from up to 16 participants. Setup and management are straightforward through an intuitive web-based interface, ensuring a smooth, secure, and collaborative wireless experience for every user.

PRODUCT FEATURES

- | Maximum output supports up to 4K@60Hz.
- | Input and output are compatible with HDCP 2.2.
- | Supports manual/automatic input source switching.
- | Supports CEC for controlling display volume and power on/off.
- | One RS232 port: supports receiving commands to control this device, and also supports sending commands from this device to control other hosts.
- | Supports balanced audio output and volume adjustment.
- | Intelligent EDID management, suitable for various applications and custom settings.
- | HDCP management.
- | Supports Type-C and HDMI wired screen mirroring and video conferencing.
- | Supports wireless screen mirroring and video conferencing.
- | Supports native wireless mirroring protocols, such as AirPlay, Chromecast, and Miracast.
- | Supports screen mirroring with the companion 4K transmitter.
- | Powerful WebGUI backend management.
- | Supports Telnet to control this device.
- | Secure wireless transmission with AES-256Bit + RSA-1024Bit encryption.
- | Supports up to 4-screen split display, with a maximum of 16 waiting participants for screen sharing.
- | Supports custom background images for the main screen.
- | Supports interactive features: wireless touch, whiteboard, and real-time annotation tools.

SPECIFICATION

	Technical	
HDMI Compliance	HDMI 2.0b	
HDCP Compliance	HDCP 1.4/ 2.2	
Video Output Resolution	3840×2160@60Hz,3840×2160@30Hz,1920×1080@60Hz,1280×720@60Hz, 1900×1200@60Hz, 1280×800@60Hz	
Video Input Ability	Miracast: Up to 1080P30;AirPlay: Up to 4K30;HDMI Input: Up to 4K60;USB-C: Up to 4K60 (DP1.2) Wireless Dongle: Up to 4K30;USB-CAM (UVC): Up to 1080P30 (MJPEG)	
HDMI CEC	Support	
Number of simultaneous connection	≤16	
Number of windows displayed simultaneously	≤4+12 (4 main windows + 12 thumbnail windows)	
Latency	< 100ms, Min.~ 20ms	
Audio Input	Miracast, AirPlay, Windows, Mac, Wireless Dongle, USB(UAC)	
Audio Output	Analog, HDMI, USB(UAC)	
HDMI Audio Formats	LPCM 2.0CH, 16bit, 48k	
Analog Audio Formats	2CH, Balanced Audio	
Analog Output Audio Parameters	Audio Output Level	2.05Vrms
	Frequency Response	(+0.5dB, -1dB) 20Hz ~ 20kHz
	Audio S/N Ratio	>90dB@ Vo=2Vrms, BW=20kHz, A-weighted
	Audio THD+N	<0.05%@ Vo=2Vrms, 1KHz
	Network	
Ethernet	Standard	1000Base-T (Supporting PoE)
	Encryption	IEEE 802.1x
WiFi	Standard	IEEE 802.11 a/g/n/ac
	Frequency Band	2.4GHz, 5GHz
	Data Rate	Up to 1200Mbps
	Antenna	4dBi, MIMO 2 x 2
	Encryption	AES WPA PSK, WPA2 PSK
	Wireless Display Standards	AirPlay, Miracast, Dongle(WPG-HDMI-100 or WPG-USBC-100)
	Connection	
Network	1 x LAN [RJ45, supporting PoE]; 3 x SMA [Female]	
Input	1 x HDMI IN [Type A,19-pin female];1 x USB-C [USB3.0, with 100W USB-PD supply]	
Output	1 x HDMI OUT [Type A,19-pin female]; 1 x AUDIO OUT [5pin-3.5mm Phoenix connector, Balanced Audio]	
USB	1 x USB Host [USB3.0Type B, connect to PC for sharing USB Devices]	
	1 x USB-C [USB3.0, for USB Device UVC/UAC]	
	2 x USB [USB 3.0 Type A, for USB Device UVC/UAC]	
Control	1 x RS-232 [3pin-3.5mm Phoenix connector]; 1 x TOUCH [USB 2.0 Type A, USB Device HID]	
	1 x USB [USB 2.0 Type A, for pairing/USB Device HID]; 1 x USB-C [USB 2.0, for pairing]	
	Mechanical	
Color	Black	
Dimensions	215mm [W] × 151mm [D] × 25mm [H]	
Weight	900g	
	Electrical	
Power Consumption	120W Max.	
Power Supply	Locking 5.5mm x 2.5mm jack: DC 24V/6A; PoE (IEEE802.3at Class 4)	
	Environment	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F	
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F	
Operating Humidity	20~80% RH (Non-condensing)	
Storage Humidity	10~90% RH (Non-condensing)	