

4K60Hz HDMI 1G AV over IP Encoder

No.WST-PIP006



Introduction

The WST-PIP006 is the encoder of the 1G AVoIP Series, supporting video input resolutions up to 4K@60Hz as well as Dolby Vision, HDR10, and HLG content.

The series supports both Ethernet and fiber-optic transmission, providing flexible deployment options for a wide range of AV-over-IP network environments. Ultra-low-latency transmission and fast matrix switching ensure a smooth and responsive AV experience.

Its powerful routing engine allows video, audio, USB, and control signals to be routed independently to any endpoint, providing greater flexibility for system design and integration.

System configuration and status information can be displayed through the On-Screen Display (OSD). The system can be conveniently managed via hotkeys, WebGUI, the IP Master Controller, or Telnet.

With versatile signal-routing capabilities, flexible control options, and scalable network architecture, the WST-PIP006 and the 1G AVoIP Series provide a cost-effective and optimized solution for modern professional AV infrastructures.

Key Features

- Supports video transmission up to 4K@60Hz over a 1G AV-over-IP network in unicast or multicast mode
- Supports multichannel audio pass-through, including DTS and Dolby Atmos
- Features RJ-45 and SFP network interfaces for flexible deployment over copper or fiber-optic networks
- Supports comprehensive USB-over-IP functionality for USB flash drives, keyboards, and mice, enabling flexible USB device sharing and multi-screen collaboration
- Supports PoE in compliance with IEEE 802.3af
- Supports IP-to-IR and IP-to-RS-232 conversion, allowing connected devices to be controlled using IR or RS-232 commands over the IP network
- Can be controlled via hotkeys, WebGUI, the IP Master Controller, or Telnet
- Audio received through the analog Line In of a connected Encoder can be routed to the Decoder's analog Line Out and digital TOSLINK output, while also being embedded into the HDMI output signal
- Audio received through the Decoder's Mic In can be transmitted to the analog Line Out of the connected Encoder
- Fast switching ensures smooth operation and responsive source selection
- TAA compliant, Made in Taiwan

Package Contents

Encoder x 1 | 12V/3A Multi-Country Power Adapter x 1 | 3-pin Terminal Blocker x 1 | IR Emitter cable x 1 | IR Receiver cable x 1 | Ear Mount Set x 1

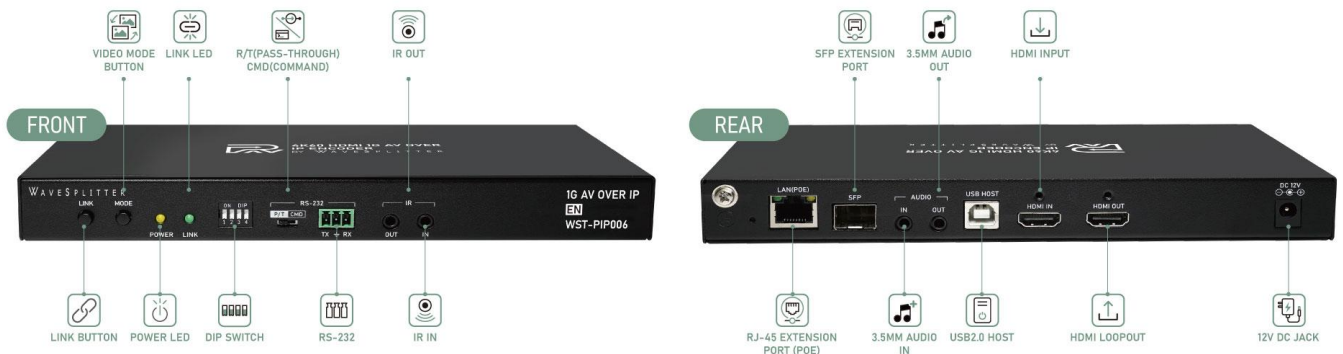
Related Products

Item No.	Description
WST-PIP007	4K60Hz HDMI 1G AV over IP Decoder
WST-PIP008	1G AV over IP Master Controller

Specifications

Model No	
Video Input	HDMI Type-A (Female) x 1
Video Output	Loop out : HDMI Type-A (Female) x 1
	Extension Port (RJ-45) x 1
	SFP Slot (Module not including) x 1
Audio	Analog Audio Line In (3.5mm Jack) x 1
	Analog Audio Line Out (3.5mm Jack) x 1
Control I/O	IR IN (3.5m Jack) x 1 / IR OUT (3.5m Jack) x 1
	RS-232 (3-Pin Phoenix Terminal Block) x 1
	USB2.0 Type-B Host Port x 1
Transmission	
HDMI Compliant	HDMI2.0 (DVI1.0)
HDCP Compliant	2.2
Max. Input	HDMI : 4096x2160@60Hz (YUV 4 : 4 : 4, YUV 4 : 2 : 2, RGB)
Max. Local Output	HDMI : 4096x2160@60Hz (YUV 4 : 4 : 4, YUV 4 : 2 : 2, RGB)
IR Frequency	30 - 50kHz
Baud Rate	115200bps
Power	
Power supply	DC 12V / 3A (DC Plug : 5.5 / 2.1 with Locking) PoE 802.3af PoE
Max. Power Consumption	8.4W
Environment	
Operating Temperature	0° C ~ 40° C
Storage Temperature	- 20° C ~ 60° C
Product Structure	
Main Material	Iron
Size W x D x H	221.0 x 105.3 x 26.0mm
Weight	641.0g
Country of Origin	Taiwan
Certification	
Safety & Emission	CE / FCC / RoHS / REACH

Panel Overview



Connection Diagram

