WP-SW2-EN7
4K AVoIP Encoder Switcher Wall Plate over 1GbE

WP-SW2-EN7 is an advanced wall plate encoder for streaming 4K video signals via Ethernet over copper cable

FEATURES

Video Streaming Transmitter - Streams up to 4K@60Hz (4:2:0) resolution signals over a 1G network interface

Streaming Support - Unicast and multicast

Multiple Inputs - One HDMI input and one USB-C input, which support multiple switching policy including Last connected, Priority and Manually

Analog Audio Embedding - Embed the unbalanced analog audio into the streaming and HDMI output signal

Convenient and Comprehensive Control - Control the unit using intuitive web interface, protocol 3000 API commands via Ethernet, or front panel LCD and navigation buttons

Control Gateway - Through P3K or special TCP connection, user can control/communicate with RS232, CEC to the connected devices

PoE Support - Option to power with PoE connection from a PoE switch

TECHNICAL SPECIFICATIONS

Inputs	1 HDMI On a female HDMI connector
	1 USB On a USB-C connector
	1 Audio On a female 3.5mm mini jack
Ports	2 Ethernet On RJ-45 female connectors
	1 RS-232 On a 3-pin terminal block connector
Network	Multicast UDP, IGMP snooping non-blocking, Layer 2
	Unicast UDP
	Bitrate Peak: 850Mbps, 4K average: 350Mbps, 1080p average: 250Mbps
Video	Compression Standard Visually Lossless, proprietary codec
	Max Resolution 4K@30Hz 4:4:4
Video Streaming	Compression: JPEG2K based, proprietary stream
	Max Input Resolution: 4K@60hz (4:2:0)
	Max Output Resolution: 4K@30hz (4:4:4)
	Max End-to-End Resolution: 4K@30hz (4:4:4)
	Scaler: Yes
	End-to-End Latency: 33msec
	Switching Time: 1sec
Resolution	4096x2160@60Hz, 1600x1200@60Hz, 1280x960@60Hz, 848x480@60Hz, 3840x2160@60Hz, 1600x900@60Hz, 1280x800@60Hz, 800x600@60Hz, 1920x1200@50Hz, 1440x900@60Hz, 1280x768@60Hz, 720x576@60Hz, 1920x1080@60Hz, 1400x1050@60Hz, 1280x720@60Hz, 720x480@50Hz, 1856x1392@60Hz, 1366x768@60Hz, 1224x768@70Hz, 640x480@60Hz, 1792x1344@60Hz, 1360x768@60Hz, 1152x864@70Hz, 640x400@85Hz, 1680x1050@60Hz, 1024x768@60Hz, 640x350@85Hz
Audio	Supported Formats LPCM, Dolby and DTS
	LPCM LPCM upto 7.1/24-bit/192kHz
	Dolby Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, Dolby Digital EX, Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0
	DTS DTS-HD Master Audio, DTS-HD, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS Digital Surround 5.1
Security	HTTPS, 802.1x, OWASP-10, AES-128 encryption of AV streaming with changeable key
User Interface	Indicators HDMI, USB and ON LEDs, front panel channel display
	Recessed Buttons CH+, CH- and factory reset button
Power	PoE (Power over Ethernet): 37V to 57V
	Typical Power Consumption 5.04W
	Full Load (including USB-C Charging) Power Consumption 67.68W

	Optional Power Supply: 20V DC, 6A Max
	Consumption when using Optional Power Supply: 68W (with USB-C charging)
Environmental Conditions	Operating Temperature 0° to +45°C (32° to 113°F)
	Storage Temperature -20° to +70°C (-4° to 158°F)
	Humidity 10% to 90%, RHL non-condensing
Regulatory Compliance (Standards Compliance)	Safety CE, FCC
	Environmental RoHs, WEEE
Enclosure	Size 2 Gang
	Type SGCC (galvanized steel) and PC (polycarbonate)
	Cooling Convection Ventilation
Product Dimensions	US: 12.10cm x 4.56cm x 12.10cm (4.76" x 1.80" x 4.76") W, D, H
	UK: 15.10cm x 4.56cm x 8.60cm (5.94" x 1.80" x 3.39") W, D, H
Product Weight	US: 0.4kg (1.0lbs) approx
	UK: 0.4kg (0.9lbs) approx
Shipping Dimensions	US: 20.00cm x 13.70cm x 8.00cm (7.87" x 5.39" x 3.15") W, D, H
	UK: 24.00cm x 13.70cm x 7.50cm (9.45" x 5.39" x 2.95") W, D, H
Shipping Weight	US: 0.7kg (1.5lbs) approx
	UK: 0.7kg (1.4lbs) approx

CONFIGURATIONS

WP-SW2-EN7/US-D(W)	High−performance, highly scalable, AVoIP Wall Plate Encoder for 4K60 4:2:0, HDR10 Typical Power Consumption: 5.04W, Full Load (USB-C Charging) Power Consumption: 67.68W, over 1G Network, with white Decora® Design Frame Sets
WP-SW2-EN7/EU(W)-80/86	80/86(W) High−performance, highly scalable, AVoIP Wall Plate Encoder for 4K60 4:2:0, HDR10, Typical Power Consumption: 5.04W, Full Load (USB-C Charging) Power Consumption: 67.68W, over 1G Network, with EU & UK White Frames