VP-428H2

DisplayPort, HDMI & VGA Auto Switcher/Scaler and PoE Provider over HDBaseT with 4K60 4:4:4 HDCP 2.2 Input Support

| VGA/UXGA - 15-pin HD | HDMI | Ethernet - RJ-45 | HDBaseT | HDCP 2.2 Compatible

VP‑428H2 is an HDBaseT 4K transmitter/scaler with HDMI, DP and VGA inputs. VP‑428H2 supports HDBaseT tunneling of Ethernet, bidirectional RS‑232 and IR signals, as well as PoE to provide power to the HDBaseT receiver. It receives the selected AV signal, up‑scales, down scales or bypasses the video, according to the settings selected by the user, and converts it for sending via HDBaseT, together with the tunneled data and PoE

FEATURES

PixPerfect™ Scaling Technology - Kramer's precision pixel mapping and high‑quality scaling technology

HDMI Support - HDCP 2.2 Compliant. 4K60, CEC, xvYCC color (on input), Dolby TureHD/DTS‑HD Master Audio as specified in HDMI 2.0

HDBaseT Certified

System Range - For the HDBaseT output, extended reach of up to 100m (330ft) using Kramer recommended cables

Provides Power (PoE) on HDBaseT Output to Compatible Devices

Max. Resolutions - Input: 4K@60Hz (4:4:4); Output: 4K@60Hz (4:2:0)

Max. VGA Resolution - 1920 x 1200 @60Hz

Built-in ProcAmp - Color, hue, sharpness, noise, contrast and brightness are set individually for each input

Constant Output Sync - No output disruption while switching between inputs when no video is detected

Audio - Unbalanced stereo and embedded audio

Auto Input Switching - Last connected & auto‑scan, selectable

HDBaseT Tunneling - Supports full HDBaseT tunneling of Ethernet and RS‑232 data

Non-Volatile Memory - Saves final settings

Flexible Control Options - Front panel push buttons, RS‑232, OSD (on‑screen display) menu with front panel navigation buttons

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TECHNICAL SPECIFICATIONS

Inputs	1 DP On a Display Port connector
	1 HDMI On a female HDMI connector
	1 PC On a 15−pin HD connector
	1 Stereo Analog Unbalanced Audio On a 3.5mm mini jack
	1 IR On a 3.5mm mini jack
Outputs	HDBaseT On an RJ−45 port
	1 IR On a 3.5mm mini jack
Ports	1 Ethernet On an RJ−45 female connector for port tunneling
	1 USB On a female USB−A connector
	1 DATA RS-232 On a 3−pin terminal block for serial link extension
	1 CTRL RS-232 On a 3−pin terminal block for device control
Video	Max Data Rate 10.2Gbps (3.4Gbps per graphic channel)
	Max. Input Resolution 4K@60Hz (4:4:4)
	Max. Output Resolution 4K@60Hz (4:2:0)
	Standards Compliance Support HDCP 2.2 and DP 1.2A. Supports 4K60, CEC, xvYCC color (on input), Dolby TureHD/DTS−HD Master Audio as specified in HDMI 2.0
	Switching Time Between Inputs 2 to 3 seconds
	Video Latency 2 to 3 frames
	Input Resolutions 640x350@60/70/85Hz, 640x400@70/85Hz, 640x480@57/60/66/72/85Hz, 720x400@70/85Hz, 720x480@60i/60p/60Hz, 720x576@50i/50p/60Hz, 800x600@56/60/72/75/85Hz, 832x624@75Hz, 848x480@59/60Hz, 864X648@60Hz, 1024x768@43i/60/70/75/85Hz, 1152x864@60/70/75/85Hz, 1152x870@60/75Hz, 1280x720@25p/30p/50p/60p/75Hz, 1280x768@50/60 (RB)/60/75/85Hz, 1280x800@59/60/75/85Hz, 1280x960@60/75/85Hz, 1280x1024@59/60/72/75/76/85Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@59/60/75Hz, 1440x900@60 (RB)/60/75/85Hz, 1600x900@60 (RB)/60/75Hz, 1600x1024@60/75Hz, 1600x1200@51/59/60/65/70/75Hz, 1680x1050@59/60/75Hz, 1920x1200@59/60/65/75Hz, 1920x1080@50i/60i/24p/25p/30p/50p/60p/60Hz, 920X1080@60s, 1920X1080@50vesa, 3840x2160@24p/25p/30p/50p/50p (420)/60p/60p (420)/60p (RB), 4096x2160@24p/25p/30p/50p/50p (420)/60p/60p (420)
	Output Resolutions Native, 640x480@60Hz, 720x480P@60Hz, 720x576P@50Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@60Hz, 1920x1200@60Hz, 1280x720P@50/60Hz, 1920x1080P@24/25/30/50/60Hz, 4K@24/25/30Hz, 4K2K(4:2:0)@50/60Hz
Power	Source 48V DC, 1.36A
	Consumption 48V DC, 410mA
Enclosure	Cooling Convection ventilation
	Type Aluminum
Environmental Conditions	Operating Temperature 0° to +40°C (32° to 104°F)

Storage Temperature −40° to +70°C (−40° to 158°F)

Humidity 10% to 90%, RHL non−condensing

Accessories	Included Power supply
Product Dimensions	18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00") W, D, H
	22.30cm x 11.50cm x 2.50cm (8.78" x 4.53" x 0.98") W, D, H
Product Weight	0.9kg (1.9lbs) approx
	0.9kg (1.9lbs) approx
Shipping Dimensions	35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83") W, D, H
	35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83") W, D, H
Shipping Weight	1.4kg (3.2lbs) approx
	1.4kg (3.2lbs) approx