VP-427H2 is a high-performance receiver/scaler for extended-reach HDBaseT twisted pair, HDMI™, bidirectional RS-232 and IR signals. The unit receives an HDBaseT signal that it converts to HDMI and passes Ethernet, IR and RS-232 signals. It also de-embeds and outputs an unbalanced stereo audio signal, and up- or down-scales the picture to match the resolution of the HDMI monitor.

FEATURES

Max. Output Resolution (HDMI) - Up- and down-scales to any resolution up to 4K@60Hz (4:4:4)
Max. Input Resolution (HDBaseT) - HDBaseT input resolution up to 4K@60Hz (4:2:0)
HDMI Support - HDCP 1.4 / 2.2, 4K60, CEC, xvYCC color (on input), Dolby TrueHD/DTS- HD Master Audio as specified in HDMI 2.0
Audio Support - Embedded and analog (supporting LPCM 2CH) for the output
HDBaseT Data Tunneling - Supports Ethernet tunneling, as well as bidirectional tunneling for RS-232 and IR control
On-Screen Display (OSD) - For easy setup and adjustment, accessible via the front-panel buttons
Constant Sync - Maintains sync on the output, even if the input video signal is lost or interrupted
System Range - Up to 100m (328ft) at 4K
TECHNICAL SPECIFICATIONS

Inputs: 1 HDBaseT twisted pair on an RJ−45 connector, 1 IR on a 3.5mm mini jack

Outputs: 1 HDMI connector, 1 IR on a 3.5mm mini jack, 1 unbalanced stereo audio (1.2Vrms nominal, 100Ω) on a 3.5mm mini jack

Ports: 1 bidirectional RS−232 port on a 9−pin D−sub connector, 1 Ethernet on an RJ−45 connector, 1 USB (A) for upgrading

Compliance with HDMI Standard: Supports HDCP 2.2. Supports 4K60, CEC, xvYCC color (on input), Dolby TrueHD/DTS−HD Master Audio as specified in HDMI 2.0

Output Resolutions: 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1360x768@60Hz, 1280x800@60Hz, 1280x1024@60Hz, 1440x900@60Hz, 1400x1050@60Hz, 1680x1050@60Hz, 1600x1200@60Hz, 1920x1200@60Hz, 480P@60Hz, 576P@50Hz, 720P@50/60Hz, 1080P@24/25/30Hz, 480P@24/25/30Hz, 4k2k@24/25/30Hz, 4k2k (4:2:0)@50/60Hz, 4k2k (4:4:4)@50/60Hz, Native

Max. Input Resolution (HDBaseT) 4K@60Hz (4:2:0)

Max. Range 100m (328ft) at 4K

Output Refresh Rate: 60Hz for computer graphics resolutions, 50/60Hz for HDTV resolutions

Audio Sampling Rate: 48kHz for analog audio output

Video Latency: Progressive input − 30ms (approx.); interlaced input − 50ms (approx.)

Embedded Audio: HDMI and HDBT support multi−channel audio

RS−232 Baud Rate: 115200bps max

Controls: Front panel buttons, OSD menu

Indicators: ON LED (green)

Power Consumption: 5V DC, 2.5A

Power Source: 5.2V/4A

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

Included Accessories: Power supply