VCAT-HD

MediaMatrix®
Peavey Electronics Corporation

HDBaseT Video Extender
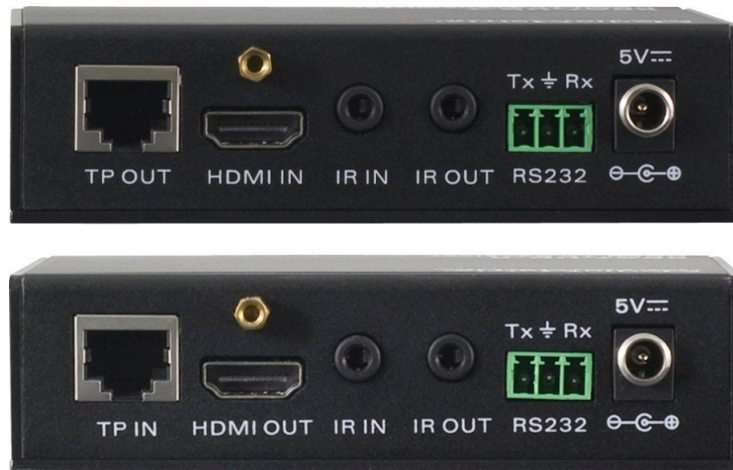**Data Sheet**

DESCRIPTION

The VCAT-HD is an HDBaseT extender comprising transmitter (VCAT-HD-T) and receiver (VCAT-HD-R).

VCAT-HD delivers HDMI video signals and IR and RS-232 control signals over a single STP cable. Resolutions up to WUXGA (1920x1200) are supported. The maximum transmission distance is 70 meters (230 ft) with CAT6 shielded cable.

FEATURES

- Support for full HD. Delivers high resolution image (1080p@60Hz@48 b/pixels/3D/4Kx2K).

- Max transmission distance is 70 meters over single CAT6 shielded cable.

- High Bandwidth: 10.2Gb/s.

- HDTV compatible. HDMI 1.4 and HDCP compliant.

- Connects an HDMI EDID and HPD source using CAT6 shielded cable.

- Bidirectional RS232 control.

- Bidirectional IR control.

- Uses HDBaseT technology.

- LED indicators show system status.

- Wall/table-mountable aluminum enclosure, PT case design.

- External power supply (100Volt~240Volt AC, 50/60Hz).

Specifications

VCAT-HD-T

Input signal: 1xHDMI, 1xIR, 1xRS-232
Input connector: HDMI, 1/8" 3.5mm IR in

VCAT-HD-R

Input signal: 1xIR, 1xRJ-45, 1xRS-232
Input connector: 1/8" 3.5mm IR in, RJ-45

General

Video signal: HDMI 1.4
Audio: Embedded HDMI audio
Resolution Range: 800x600 ~ 1920x1200
Transmission Distance: Max distance 70M
Gain: 0dB ~ 10dB@100MHz
SNR: >70dB@ 100MHz-100M
Differential Phasic Error: ±10° @ 135MHz_100M
Bandwidth: 10.2Gbps

Return Lost: -30dB@5KHz
THD: 0.005%@1KHz
HDMI Standard: Supports HDMI 1.4 and HDCP
Min. Max. Level: 0.3V ~ 1.45Vp-p
Impedance: 75Ω
Power Supply: 100VAC ~ 240VAC, 50/60Hz
Power Consumption: 6.5W

Mechanical Specifications

Dimensions: H 1.18" (30mm), W 3.03" (77mm),
D 5.28" (134mm)
Weight: 1.76lb (0.8kg).

Environment

Temperature: -20 ~ +60°C
Humidity: 10% ~ 90%

Architect's & Engineer's Specifications

HDBaseT Video Extender

The HDBaseT Video Extender shall be a 1.18" (30mm) high industrial package designed for installation in engineered audio and communication systems. There shall be two variants of the product: a transmitter and a receiver. The devices shall accept a number of different video inputs/outputs, including HDMI, VGA, S-Video and component video. The devices shall pass infrared and RS-232 control signals bidirectionally. The devices shall feature a network connector port to allow the encoder and decoder variants to be connected together over a maximum distance of 230 ft. (70 metres). LEDs shall display the status of the units. The products shall be the VCAT-HD-R (receiver) and VCAT-HD-T (transmitter) or approved equals.