

ECHO-4S
Specification Sheet
Four Channel HDBaseT™ Sender

Description

The ECHO-4S is designed to allow a single HDMI 2.0 source to be displayed remotely at up to four different locations, using HDBaseT™ technology. HDMI resolutions up to 4K UHD (4K@60 4:4:4) can be extended up to 70 m, while resolutions up to 1080p can be extended 100 m over a single Cat 5e or Cat 6 cable. ECHO supports HDCP 2.2 and 1.4 content protection, as well as HDR10 high dynamic range video.

In addition to HDMI extension, the ECHO-4S also extends RS-232 serial data, and bi-directional IR for control of remote devices. The ECHO-4S includes a local HDMI output, EDID routing control, de-embedded analog audio, and power over cable (PoC) to power remote receivers. The ECHO-4S has built-in HDMI splitters to extend a single video to four receivers respectively, and has additional features including RS-232 and IR loop output for daisy-chaining transmitters, and digital TOSLINK audio de-embedding.

Key Features

- HDBaseT extender.
- Extend UHD 4K@60Hz 4:4:4 up to 70 m and 1080p up to 100 m.
- HDCP 2.2, HDR10, 3D support.
- RS-232 pass-through and control.
- Bi-directional IR (wide band).
- HDMI loop output on the sender.
- Dual HDMI output on the receiver.
- Audio extraction on the sender and receiver.
- EDID management.
- Power over Cable (only the sender side needs a power supply).
- Locking power supply connector.
- Daisy chain support of transmitters up to four.

Specifications

Video	
Standards	HDMI 2.0 video specifications including HDR10, 3D video HDCP 2.2, 1.4 DVI (single link)
Connectors	(1) HDMI input, (1) HDMI output
Resolutions	HDTV signal: 480p through 4K@60 4:4:4 DVI signal: VGA (640x480) through WUXGA (1920x1200)

Audio	
Formats	LPCM 2CH audio (32–192 kHz sample rate) DTS-HD, Dolby-HD

Control	
RS-232	(2) RX, TX and GND on terminal strip (input and loop output) RS-232 input baud rate: 115200, N, 8, 1 for configuration, otherwise pass-through RS-232 output to ECHO-RX2 baud rate: pass-through
IR	(2) 3.5 mm IR inputs (input and loop) (2) 3.5 mm IR outputs (input and loop) Wide-band IR pass-through: 38 – 56 kHz supported

USB	
USB	USB 2.0 Micro Type-B (for firmware update only)

Power	
Power Supply	100–240 V AC, 47–63 Hz, external; 24 V DC, 4 A
Typical Power Consumption	15 W (sender), 30 W (PoC)

Environmental	
Operating	+14 to +131 °F (-10 to +55 °C), 5% to 90% RH, non-condensing
Storage	-40 to +158 °F (-40 to +70 °C), 5% to 90% RH, non-condensing

Dimensions (H × W × D)	
Unit	1.74 × 10.64 × 7.46 in (44.2 × 270 × 189.5 mm), including mounting flange width

Weight	
Unit	3.85 lb
Shipping	10.0 lb

General	
Cooling	Convection
Enclosure Type	Metal (steel)
MTBF	90,000 hours (estimate)

Certifications	
Safety	CE
EMI/EMC	CE, FCC Class A

Warranty	
Device	3 years parts and labor. To view the product warranty, visit: hallresearch.com/warranty

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