

HDBT-HUUB321-70M

2x1 18G KVM Extender over HDBaseT



HDBT-HUUB321-70M
RX

The ABtUS 2x1 18G KVM Extender over HDBaseT includes a transmitter (TX) and a receiver (RX), enabling high-quality video transmission over a single CAT6A cable. It supports distances of up to 40m at 4K@60Hz and 70m at 4K@30Hz. Additional features include audio pass-through, two-way IR, USB extension, and RS232 pass-through. The 24V PoC (Power over Cable) functionality allows the TX and RX to power each other, requiring only one power adapter for the entire system—either the TX or RX needs to be powered.



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TX

Features

- 18Gbps high bandwidth, HDMI V2.0.
- HDMI and USB-C video resolution up to 4K@60Hz 4:4:4, HDR10, Dolby Vision.
- Supports to transmit up to 40m at 4K@60Hz or 70m at 4K@30Hz, with HDCP 2.2.
- Controlled by button on the front panel, GUI (via TCP/IP) and RS232.
- Two-way IR and RS232 pass-through.
- Supports audio separation for PCM 2.0, and audio pass-through.
- Supports two-way 24V PoC.
- Provides HDMI loop out.

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Technical specification

	Transmitter	Receiver
Video		
Input	1 x HDMI IN 1 x USB-C	1 x HDBT IN
Input Connector	1 x Type-A female HDMI 1 x USB Type-C	1 x RJ45
Input Resolution	Support up to 4K@60Hz 4:4:4	
Output	1 x HDBT OUT, 1 x LOOPOUT	1 x VIDEO OUT
Output Connector	1 x RJ45, 1 x Type-A female HDMI	1 x Type-A female HDMI
Output Resolution	Up to 4K@60Hz 4:4:4	
Audio		
Input	1 x L/R IN	-
Input Connector	1 x 3.5mm jack	-
Output	1 x Analog audio output	1 x L/R OUT
Output Connector	1 x 5-Pin terminal block	1 x 3.5mm jack
Audio Format	Supports PCM 2.0	
Frequency Response	20Hz ~ 20KHz, ±3dB	
Max Output Level	2.0Vrms ± 0.5dB. 2V = 16dB headroom above -10dBV (316mV) nominal consumer line level signal	
THD+N	< 0.05% (-80dB), 20Hz~20KHz bandwidth, 1kHz sine at 0dBFS level (or max level)	
SNR	> 80dB, 20Hz-20kHz bandwidth	
Crosstalk Isolation	-70dB, 10kHz sine at 0dBFS level (or max level before clipping)	
L-R Level Deviation	< 0.3dB, 1kHz sine at 0dBFS level (or max level before clipping)	
Frequency Response Deviation	20Hz - 20kHz, ±3dB	
Output Load Capability	1KΩ and higher (Supports 10x paralleled 10KΩ loads)	
Stereo Channel Separation	> 70dB@1KHz	
Control		
Control Part	2 x USB DEVICES, 1 x RS232, 1 x IR IN, 1 x IR OUT, 1 x MODE Switch, 1 x PoC Switch, 1 x HOST, 1 x TCP/IP, 1 x USB-C	4 x USB DEVICE, 1 x RS232, 1 x IR IN, 1 x IR OUT, 1 x MODE Switch, 1 x PoC Switch, 1 x USB Power Switch
Control Connector	2 x USB 3.2 Gen1 Type-A, 1 x USB 3.2 Gen1 Type-B, 1 x 2-pin DIP Switch 2 x 3.5mm Jacks, 1 x 3-pin Terminal Block, 1 x USB-C	3 x USB 2.0 Type-A, 1 x USB 2.0 Type-C, 3 x 2-pin DIP Switch, 2 x 3.5mm Jacks, 1 x 3-pin Terminal Block
Bandwidth	18Gbps	
HDMI Standard	2.0	
HDCP Version	Input: HDCP 2.2, HDCP 1.4 compliant. Support HDCP management.	
Two-way PoC	Supported two-way 24V	
HDMI V2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@30Hz 4:4:4 ≤ 10m, 1080p ≤ 15m	
Transmission Standard	HDBaseT	
Transmission Distance	4K@60 4:4:4 ≤ 40m; 4K@30 4:4:4 ≤ 70m, 1080p@60 4:4:4 ≤ 70m	
Operation Temperature	-5°C to +55°C (+23° to +131°F)	
Storage Temperature	-25°C to +70°C (-13°F to +158°F)	
Relative Humidity	10% to 90%, non-condensing	
Power Supply	DC 24V/1.5A	
Power Consumption	35.5W (Max)	28W (Max)
Dimension (W x H x D)	190mm x 21.7mm x 130mm	140mm x 21.5mm x 110mm
Net Weight	520g	360g

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Typical applications

Any integration that requires multi format inputs over a long distance or requires HDBT outputs.
 • Schools (Classroom, Lab, Hall etc.) • Churches • Corporate Applications (Board Room, Function Room etc) • Rental

Diagram

