



Pro AV/IT Integrator Series™ HDBaseT™ 4K60 18G HDMI Extender Kit with Audio, RS232, IR, PoC up to 492ft

Extend 4K HDMI, Audio and RS232 Signals over a Single UTP Cable up to 492ft

Comprehensive's CHE-HDBT250 is an HDBaseT™ 2.0 Extender with HDMI, audio, IR and RS232 connectivity. This extender supports video resolutions up to 4K@60Hz 4:4:4 18Gbps. It also supports de-embedded audio for L/R audio output and PoC function. In addition, this extender is equipped with bi-directional IR & RS232 pass-through which allows for source and display control up to 492ft.

The CHE-HDBT250 HDBaseT™ extender offers the most convenient solution for HDMI extension via a single Cat5e/6 with long distance capability and is the perfect solution for any application.



4K/UHD Capability @60Hz 18Gbps with 4:4:4 Chroma Subsampling

The CHE-HDBT250 extender set complies with the advanced HDCP 2.2 and HDMI 2.0 standards. Through the use of the highly efficient and visually lossless DSC compression scheme, high bandwidth signals, previously unsupported by HDBaseT™, such as 4K@60Hz (4:4:4, 8-bit) or 4K@24Hz (4:4:4, 12-bit, HDR) can be extended without visual compromise or additional latency.

Bi-Directional PoC

The CHE-HDBT250 may be powered by a single 24V power supply on either the transmitter or receiver which makes install flexible and clutter free.

Analog Audio De-embedding

The CHE-HDBT250 is readily equipped with a 3.5mm audio port for de-embedding analog audio from the HDMI output which makes it simpler to connect your audio amplifier or entertainment system.

Bi-Directional RS232 and IR Control Pass-through

The CHE-HDBT250 extends RS-232 and IR control signals over HDBaseT™, offering numerous possibilities for remotely interfacing a source or display with a control system.

Easy to Install Discreetly

The CHE-HDBT250 can be easily installed on a wall, in furniture, under a table or hidden within a floor box. The Slim and compact design with mounting brackets can be easily concealed behind a wall-mounted display or above a projector.

Quality You Can Count On

Since 1974, Comprehensive has been manufacturing the highest quality commercial grade solutions for AV and IT professionals. This product continues that tradition with high end materials, components and quality control to ensure years of worry-free use. All components are backed by Comprehensive's 3 Year Warranty, so you can be assured this product will work for many years to come.

Features

- HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- Supports 18Gbps video bandwidth
- The maximum extended transmission distance via a single Cat5e/6 cable: 394ft/120m for 4K2K signal, 492ft/150m for 1080p signal
- Support one HDMI loop output on the transmitter
- De-embedded audio to analog stereo output on receiver
- Supports bi-directional IR, RS-232 and CEC pass-through
- HDR, HDR10+, Dolby Vision and HLG function supported
- Supports PoC (Power over Cable) function
- Compact design for easy and flexible installation
- 3 Year Warranty

CHE-HDBT250



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Specifications

I/O Connections

Transmitter

- Inputs: 1x HDMI Type A [19-pin female]
- Outputs: 1x HDMI Type A [19-pin female]
- 1x HDBT OUT [RJ45, 8-pin female]
- Control: 1x IR IN [3.5mm Stereo Mini-jack]
- 1x IR OUT [3.5mm Stereo Mini-jack]
- 1x RS-232 [Phoenix jack]
- 1x SERVICE [Mini-USB, Update port]

Receiver

- Inputs: 1x HDBT IN [RJ45, 8-pin female]
- Outputs: 1x HDMI Type A [19-pin female]
- 1x AUDIO OUT [3.5mm Stereo Mini-jack]
- Control: 1x IR IN [3.5mm Stereo Mini-jack]
- 1x IR OUT [3.5mm Stereo Mini-jack]
- 1x RS-232 [Phoenix jack]
- 1x SERVICE [Mini-USB, Update port]

Supported Audio, Video Formats

- Video Bandwidth: 18Gbps
- Max Video Resolution & Distances: 4K 60Hz 4:4:4 = 394ft/120m
- 1080p 60Hz 4:4:4 = 492ft/150m
- Color Bit Depth: 8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz)
- YCbCr 4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4)
- Color Space Formats: RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
- Supported Resolutions: 4K2K 50/60Hz 4:4:4, 4K2K 50/60Hz 4:2:2, 4K2K 50/60Hz 4:2:0, 4K2K 30Hz 4:4:4, 1080p, 1080i, 720p, 720i, 480p, 480i
- All HDMI 3D TV formats, All PC resolutions including 1920 x 1200
- Video Compliance: HDMI 2.0 and HDCP v1.4/v2.2
- HDMI Audio Formats: LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X, Analog L/R
- Audio Formats" PCM 2.0

Power & Regulatory

Power Input

- Input: AC 100 - 240V 50/60Hz
- Output: DC 24V/1A (Locking connector)
- Power Consumption: 9.36W
- Regulatory: FCC, CE, RoHS
- Prop 65 Compliant: No

Chassis and Environmental

- Construction: Metal (Black)
- Dimensions: Transmitter / Receiver: 140mm [W] x 65mm [D] x 18mm [H]
- Operating Temperature: 32 - 104°F / 0 - 40°C
- Operating Humidity: 20 - 90% RH (no condensation)
- Storage Temperature: -4 - 140°F / -20 - 60°C
- Product Weight Transmitter: 160g, Receiver: 155g

Package Contents

- CHE-HDBT250 x1
- Installation Guide x1
- Power Supply x1
- 3-pin Phoenix connector x2
- Mounting Brackets & Screws x4
- IR emitter x1
- IR receiver x1

Other

- Diagnostic Indicators: Power and Status
- UPC: 808447084498
- Product Part Number: CHE-HDBT250
- Warranty: 3 years

EXTENDER

CHE-HDBT250