



# Pro AV/IT HDBaseT™ 4K60 18G HDMI Extender Kit with USB, Audio, LAN, RS232 up to 330ft

## Extend 4K HDMI, USB, Audio, LAN and RS232 Signals over a Single UTP Cable up to 330ft

Comprehensive's CHE-HDBT255U is an HDBaseT™ 2.0 Extender with HDMI, USB, audio, LAN, IR and RS232 connectivity. This extender supports video resolutions up to 4K@60Hz 4:4:4 18Gbps. It also supports de-embedded audio for optical and L/R audio output and PoC function. In addition, this extender is equipped with bi-directional LAN, IR & RS232 pass-through which allows for source and display control up to 330ft.

The CHE-HDBT255U 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-HDBT255U 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.

## Dual USB Ports provide extension for KVM connectivity

The CHE-HDBT255U has USB ports providing USB hub functionality to make this an ideal KVM solution to transmit HDMI video signal as well as webcams, external drives, touch/interactive displays, keyboard & mouse when the PC is housed in a distant control room.

## Bi-Directional PoC

The CHE-HDBT255U may be powered by a single 24V power supply on either the transmitter or receiver which makes install flexible and clutter free.

## Digital and Analog Audio De-embedding

The CHE-HDBT255U is readily equipped with an optical and 3.5mm audio port for de-embedding Digital or analog audio from the HDMI output which makes it simpler to connect your audio amplifier or entertainment system.

## Bi-Directional LAN, RS232 and IR Control Pass-through

The CHE-HDBT255U extends LAN, 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-HDBT255U 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. The CHE-HDBT255U extender kit 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 of guaranteed reliability.

## 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:
  - 296ft / 90m for 4K2K signal
  - 330ft / 100m for 1080P signal
- 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
- Supports ARC (Audio Return Channel) function
- Supports USB KVM function
- 3 Year Warranty

**CHE-HDBT255U**



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## Specifications

### I/O Connections

Transmitter

Inputs: 1x HDMI Type A [19-pin female]

Outputs: 1x HDBT OUT [RJ45, 8-pin female]

1x SPDIF OUT [S/PDIF]

1x L/R OUT [3.5mm Stereo Mini-jack]

1x LAN [RJ45]

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]

1x USB HOST [USB Type B]

Receiver

Inputs: 1x HDBT IN [RJ45, 8-pin female]

1x SPDIF IN [S/PDIF]

Outputs: 1x HDMI Type A [19-pin female]

1x LAN [RJ45]

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]

2x USB 2.0 [USB Type A]

### Supported Audio, Video Formats

Video Bandwidth: 18Gbps

Max Video Resolution & Distances: 4K 60Hz 4:4:4 = 296ft/90m

1080p 60Hz 4:4:4 = 330ft/100m

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

SPDIF Audio Formats: LPCM2.0, Dolby Digital, Dolby Digital Plus, DTS

### Power & Regulatory

Power Input

Input: AC 100 - 240V 50/60Hz Output: DC 24V/1A (Locking connector)

Power Consumption: 13W

Regulatory: FCC, CE, RoHS

Prop 65 Compliant: No

### Chassis and Environmental

Construction: Metal (Black)

Dimensions

Transmitter / Receiver: 165mm [W] x 88mm [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: 170g, Receiver: 165g

### Package Contents

CHE-HDBT255U 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: 808447084504

Product Part Number: CHE-HDBT255U

Warranty: 3 years

EXTENDER

**CHE-HDBT255U**