

# HDBaseT 3.0 Extender

**4K60 DP HDBaseT 3.0 Extender with Dual Console, Dual-User Access, Local Out, Audio, RS-232, USB 2.0, PoH, 90m**

**Model: KEX-HBT3-SD90P**

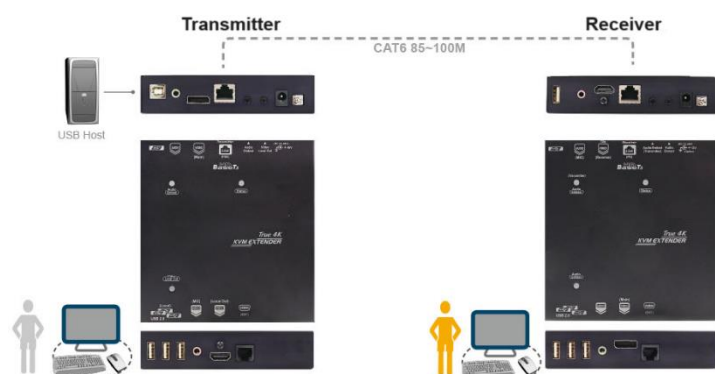
## PRODUCT OVERVIEW

**KEX-HBT3-SD90P, the DP HDBaseT 3.0 KVM Extender**, consists of a Transmitter (Host/PC) and a Receiver (USB Device) unit. It allows you to extend DisplayPort/HDMI, USB 2.0, 3.5mm Audio, and Serial signals up to 70 ~ 100 meters.



Based on the latest HDBaseT 3.0 technology, the CATx DP Extender supports uncompressed 720p/1080p/4K@60Hz (4:4:4) video and 480Mbps USB 2.0 signals.

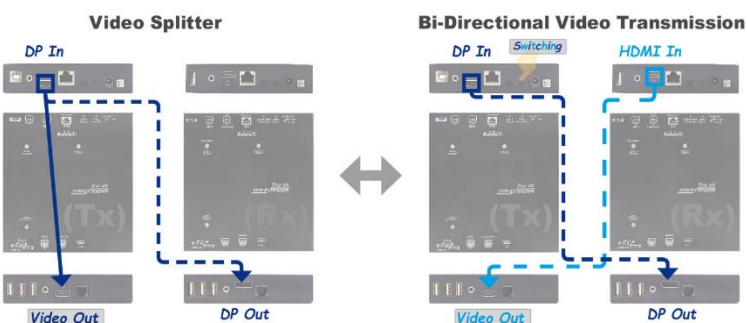
## Dual KVM Console: Dual-User Access



Dedicated USB-A ports on the TX and RX of the Extender units are suitable for both local and remote USB peripheral access. The dual console function allows two users (local and remote) to share one computer. The local console, Transmitter, enables users to access the computer directly, while the remote console, Receiver, allows users to control the computer remotely as if they were sitting right in front of it.

access the computer directly, while the remote console, Receiver, allows users to control the computer remotely as if they were sitting right in front of it.

## Bi-Directional Video Extension

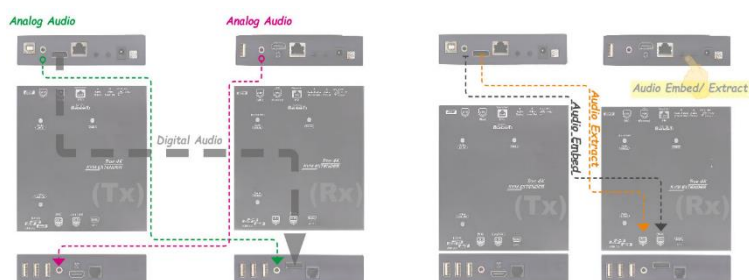


Bi-directional DP/HDMI signal transmission, combined with video switch or splitter functions, enables the video output port on the Transmitter unit (Local Out) to present either local video from the TX or remote video from the RX.

# HDBaseT 3.0 Extender

The video signals can be switched simply by pressing a button. The Local Out video switching function provides better visibility and allows local users to monitor video signals from both sides, while the video splitter function broadcasts the video signal on both the local (TX) and remote (RX) units concurrently.

## Bi-Directional Audio Extension



The Extender's bi-directional audio signal transmission, combined with audio embedder/extractor functions, can independently transmit the audio signal from the Transmitter unit to the Receiver unit, and vice versa.

It can also embed audio from a 3.5mm source into the DP signal or extract the DP audio to a 3.5mm analog stereo output. These diversified audio streaming functions support real-time broadcasting, on-site broadcasting, off-site broadcasting, and emergency warnings.

The PoH (Power over HDBaseT) feature provides 48V from the Transmitter (PSE, 48V) to the Receiver (PD), allowing for greater flexibility in different installation scenarios where there is no available power socket nearby.

## KEY FEATURES

- Allows reliable remote access of a computer or video source via a Cat6a/7 cable up to 90m (295 feet)
- Uncompressed True 4K DisplayPort extension enabled by HDBaseT 3.0 Technology
- DisplayPort video supports most popular resolutions up to 4K@60Hz (4:4:4)
- HDCP 1.4 compliance ensures proper playback of video
- Auxiliary HDMI allows flexible monitoring:
  1. Transmitter Side Local Output HDMI 4K 60Hz video (Local Console)
  2. 720P Video Return from the Receiver facilitates monitoring and recording purposes
- USB 2.0 extension supports keyboard, mouse, USB storage, USB camera, and other devices
- Serial extension facilitates wide-ranging RS-232 Control Applications

# HDBaseT 3.0 Extender

- CEC pass-through allows easy control
- Audio embedding allows user to insert informative audio content into the DisplayPort video
- Audio extracting allows easy connection to an analog audio amplifier
- Audio embed controls at both sides allows practical audio applications
- ARC ( Audio Return Channel ) facilitates Sound Bar application
- PoH ( Power over HDBaseT ) allows the Transmitter to supply power to the Receiver

## PRODUCT SPECIFICATIONS

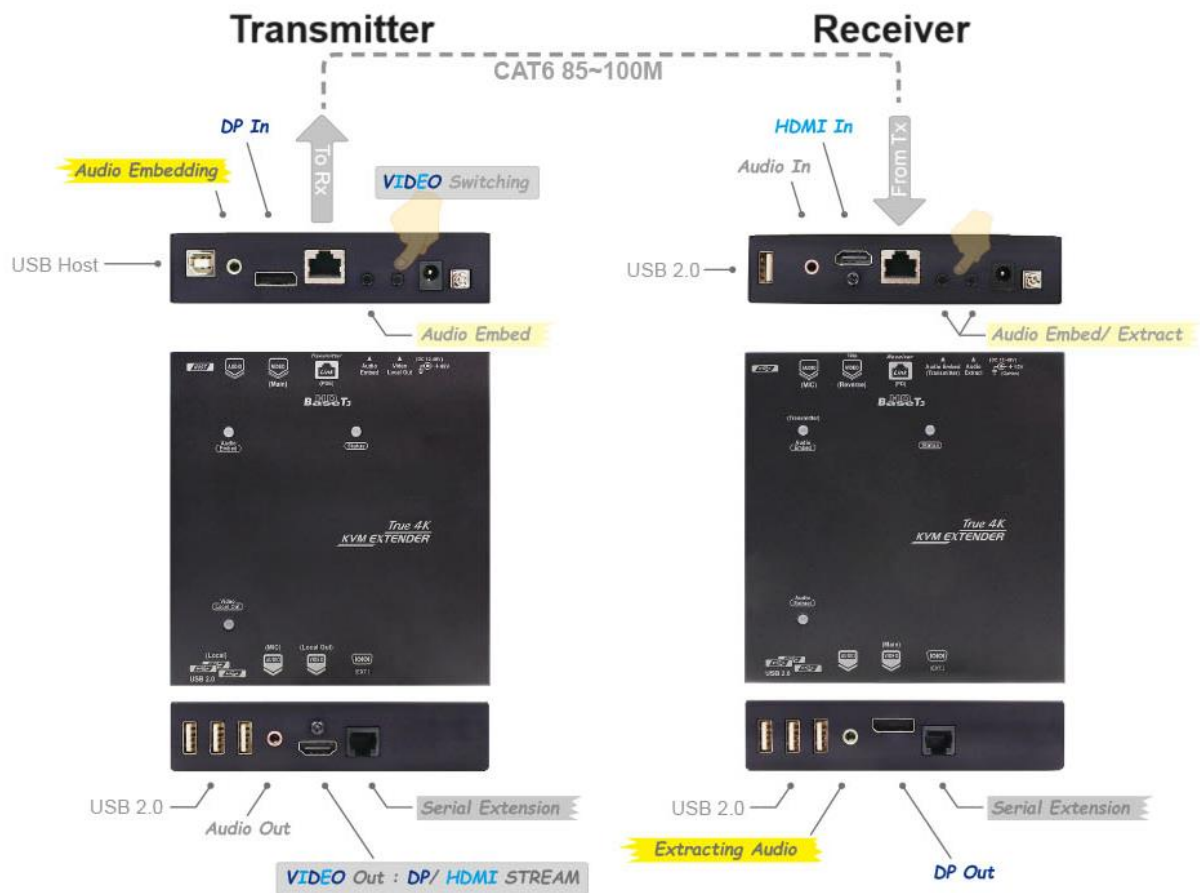
KEX-HBT3-SD90P	Transmitter	Receiver
<b>Max Resolution</b>	3840x2160@60Hz ( 4:4:4 ), 4096x2160@60Hz ( 4:4:4 ), 7680x4320@30Hz ( 4:2:0 )	
<b>Video Extension</b>	DP x 1 (In)	DP x 1 (Out)
<b>USB 2.0 Extension</b>	USB-B x 1 USB-A x 3	USB-A x 4
<b>Speaker Extension</b>	3.5mm SPK Jack x 1 (In)	3.5mm SPK Jack x 1 (Out)
	Independent Transmission or Embed into DP Signal	Independent Transmission or Extract from DP Signal
<b>Microphone Extension</b>	3.5mm MIC Jack x 1 (Out)	3.5mm MIC Jack x 1 (In)
<b>Serial Extension</b>	RJ11 x 1 (RS-232)	
<b>Buttons Control</b>	Audio Embed On or Off Local Console or Video Return	Audio Embed On or Off Audio Extract On or Off
<b>HDCP Compliance</b>	HDCP 1.4	
<b>HDBaseT Interface</b>	RJ45 x 1 (CAT6a/7)	
<b>Extension Range</b>	Max 70 ~ 90m with Cat6a/7 (HDBaseT cable recommended)	
<b>Auxiliary HDMI</b>	1. HDMI 2.0 Local Out	(Not Used)
	2. 720P Video Return (Receiver-to-Transmitter)	
<b>Power Supply</b>	DC 48V, 315mA (PoH Transmitter-to-Receiver)	
<b>Power Consumption</b>	15W	
<b>Operation Environment</b>	0 ~ 50°C, Humidity < 80%	
<b>Storage Temperature</b>	-20 ~ 60°C	
<b>Material</b>	Aluminium Metal	
<b>H x W x D (mm)</b>	30 x 127 x 135	
<b>Weight (g)</b>	650	650

# HDBaseT 3.0 Extender

## CONNECTION DIAGRAM



## Connection Interfaces of the Transmitter and Receiver:



# HDBaseT 3.0 Extender

## PACKAGE CONTENTS

- 1 × KEX-HBT3-SD90P Transmitter Unit
- 1 × KEX-HBT3-SD90P Receiver Unit
- 1 × 48V/1.5A DC Power Adapter
- 1 × USB 2.0 A-B Cable
- 2 × RJ-11 to DB9 Adapter
- 1 × User Manual
- 2 × Foot Pad Set
- 2 × Mounting Brackets Set

## WARRANTY

- 1-Year Limited Warranty
- Advance Replacement Warranty is available and optional

## ORDERING INFORMATION

Part Number	Descriptions
<b>KEX-HBT3-SD90P</b>	4K60 DP HDBaseT 3.0 KVM Extender with Dual Console, Dual-User Access, Local Out, Audio, RS-232, USB 2.0, PoH, 90m
<b>(OPTIONAL)</b>	
<b>KEX-ACC-VESA</b>	KVM Extender VESA/Wallmount Kit

## CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

- **Website:** [www.dsgio.com](http://www.dsgio.com)
- **Email:** [sales.apac@dsgio.com](mailto:sales.apac@dsgio.com)

## DISCLAIMER

DSGio shall not be liable for any damages, including punitive, consequential, or cost of cover damages, arising from any errors in the product information or specifications provided in this document. This document is subject to revision by DSGio at any time without prior notice.