

# 4K@60Hz (4:4:4), 18Gbps HDBaseT™ Extenders



## Overview

The B serial extenders (HBT70B-KIT and HBT100B-KIT) from SEADA provide the ability to deliver HDMI2.0 @4K60Hz 4:4:4 with 18Gbps bandwidth over incredible distance using HDBaseT technology. They also support HDR (High Dynamic Range), HDCP2.2 and latency free.

The Extenders support bi-directional IR and RS-232 signals for control applications as well as an ethernet port for LAN serving.

The Extenders also support PoC (Power over Cat) which allows a single power supply to be used via either of the units to power both units which makes it convenient for modern AV installations. The power supply is connected via a lockable DC jack offering a secure and reliable connection.

## Features

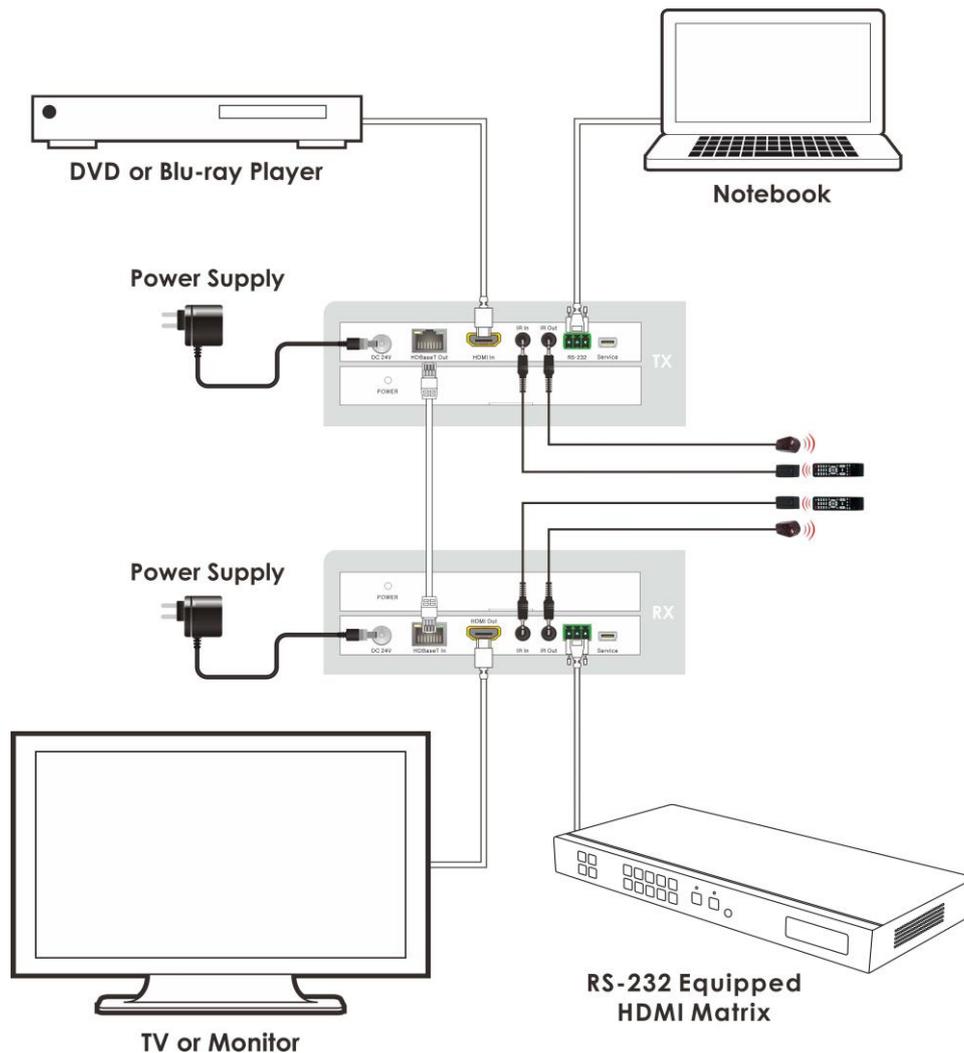
- HDMI 2.0b (18Gbps), HDCP 2.2 and DVI compliant
- Video resolutions up to 4K2K@50/60Hz (YUV444)
- 10bits HDR (High Dynamic Range) pass through
- Supports HDMI High Bit Rate (HBR) audio pass through
- Supports CEC bypass
- Supports HDMI Audio Formats of LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
- POC (Power Over Cable) function is supported, either TX or RX is powered by24V@1A power supply, the other unit does not need a power supply from the DC jack.
- POC Power consumption is less than 10W.
- Transfer Bidirectional Infrared control signal together with the HDMI signal.
- Transfer Bidirectional RS232 control signal together with the HDMI signal.
- Compatible with SEADA SW video wall controllers

## Models

| Models      | Description   |
|-------------|---|
| HBT70B-KIT  | 4K@60 (4:4:4) up to 40m, 1080P up to 70m                              |
| HBT100B-KIT | 4K@60 (4:4:4) up to 70m, 1080P up to 100m with an extra ethernet port |

## Specifications

|  |   |
|--|---|
| <b>Dimensions(W*D*H) (mm)</b>            | 157 x 90 x 20   |
| <b>Input</b>                             | HDMI 2.0b with HDCP 2.2 and HDCP 1.4 supported  |
| <b>Video Bandwidth</b>                   | 18 Gbps   |
| <b>Video Resolutions</b>                 | up to 4K2K@50/60Hz (YUV4:4:4),4K2K@30Hz,1080P@120Hz, and 1080P 3D@60Hz  |
| <b>Color Space</b>                       | RGB, YCbCr 4:4:4, YCbCr 4:2:2   |
| <b>Color Depth</b>                       | 10-bit, 12-bit  |
| <b>HDMI Audio Formats (Pass-through)</b> | LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X |
| <b>Power Supply</b>                      | Input: AC100 - 240V 50/60Hz    Output: DC 24V/1A  |
| <b>Operation Temperature</b>             | 32 - 104°F / 0 - 40°C   |
| <b>Storage temperature</b>               | -4 - 140°F / -20 - 60°C   |
| <b>Relative Humidity</b>                 | 20 - 90% no condensation  |
| <b>Cooling</b>                           | Passive cooling   |
| <b>Warranty</b>                          | 2 years   |



## System Diagram