

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

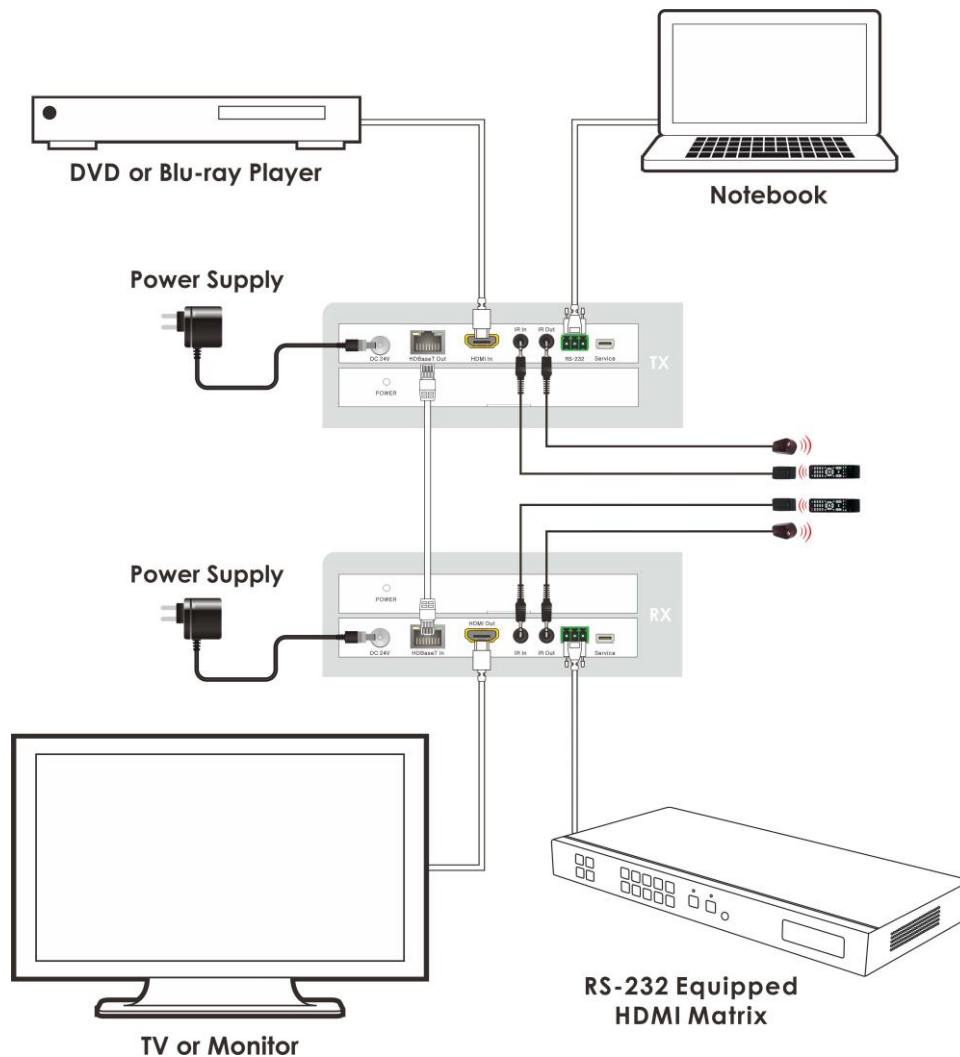
- HDMI 2.0b (18Gbps), HDCP 2.2 and DVI compliant
- Video resolutions up to 4K2K@50/60Hz (YUV444)
- 10bits HDR (High Dynamic Range) pass through
- Supports HDMI High Bit Rate (HBR) audio pass through
- Supports CEC bypass
- Supports HDMI Audio Formats of LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
- POC (Power Over Cable) function is supported, either TX or RX is powered by 24V@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

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



System Diagram