

HDB82x-4K-150 HDBaseT Splitter



HDB820-4K-150-TX



HDB101-4K-150-RX



HDB-102-4K-150-RX

This 18Gbps 2x8 HDBaseT Splitter can connect two source and distribute the signal to up to sixteen displays, support video resolution up to 4K2K@60Hz 4:4:4. It is designed with one HDMI input, one HDBaseT input, one HDMI loop output and eight HDBaseT outputs at Splitter Transmitter. The HDMI signal transmission distance can be extended up to 120 meters at the resolution of 4K2K@60Hz, or 150 meters at 1080P@60Hz via a single CAT6a cable.

Features

- HDMI 2.0b, HDCP 2.2 and HDCP 1.x compliant
- Support 18Gbps video bandwidth and video resolution up to 4K2K@60Hz 4:4:4
- Support HDR, HDR+, HLG and Dolby vision
- Support HDMI cable up to 5 meters at 4K60, 10 meters 4K30 and 15 meters at 1080P60
- Support 1 HDMI input, 1 HDBaseT input, 1 HDMI loop output and 8 HDBaseT outputs at Splitter Transmitter
- Support digital and analog audio de-embedded output at Receiver
- Support image import and display time configure via Web GUI at Receiver
- Support user-defined screen output in defined time if no video signal at transmitter input
- Support up to 7.1CH HD audio pass-through and IR, RS232 routed to HDBaseT output
- Support Advanced EDID management by command or DIP switch
- Support one-way POC function (only from transmitter to receiver)
- Support one-command multiple port stream on/off
- Support individual port downscale
- Support firmware upgrade for add-on feature

Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.x
Video Bandwidth	594MHz/18Gbps
Video Resolution	Up to 4k2k@60Hz 4:4:4
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
Color Space	RGB 4:4:4, YCbCr 4:4:4 / 4:2:2 / 4:2:0
HDR	Support HDR, HDR10+, HLG, Dolby vision
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
Coaxial Audio Formats	PCM2.0, Dolby Digital / Plus, DTS 2.0/5.1
Analog Audio Formats	PCM 2.0CH
ESD Protection	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter Input	1 × HDMI Type A [19-pin female] 1 × HDBaseT IN [RJ45]
Transmitter Output	1 × HDMI Type A [19-pin female] 8 × HDBaseT OUT [RJ45] 1 × Coaxial Audio OUT [RCA]
Transmitter Control	1 × L/R Audio OUT [5-pin phoenix connector] 1 × RS-232 [3-pin phoenix connector] 1 × EDID DIP switch [5-pin] 1 × IR IN [3.5mm Stereo Mini jack] 1 × IR OUT [3.5mm Stereo Mini jack]
Receiver Input	1 × HDBaseT IN [RJ45]
Receiver Output	1 × HDMI Type A [19-pin female] (HDB101-4K-150-RX); 2 × HDMI Type A [19-pin female] (HDB102-4K-150-RX) 1 × AUDIO OUT [3.5mm Stereo Mini jack]
Receiver Control	1 × RJ45 Network Port 1 × IR IN [3.5mm Stereo Mini jack] 1 × IR OUT [3.5mm Stereo Mini jack] 1 × RS-232 [Phoenix jack] 1 × SERVICE [USB C, Update port]

Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	Transmitter: 440mm (W) × 130mm (D) × 40mm (H); Receiver: 160mm (W) × 88mm (D) × 20mm (H)
Weight	Transmitter: 1.85kg. Receiver: 350g (HDB101-4K-150-RX); 400g (HDB102-4K-150-RX);
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 24V/3.75A (US/EU standards, CE/FCC/UL certified)
Power Consumption	72W
Operation Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Relative Humidity	20~90% RH (non-condensing)

EDID DIP switch

The defined EDID setting list of the product is shown as below:

EDID Mode	EDID Description	EDID Mode	EDID Description
11111	1080P, Stereo Audio 2.0	01111	4K2K60Hz_444, Dolby/DTS 5.1
11110	1080P, Dolby/DTS 5.1	01110	4K2K60Hz_444, HD Audio 7.1
11101	1080P, HD Audio 7.1	01101	4K2K60Hz_444, Stereo Audio 2.0 HDR
11100	1080I, Stereo Audio 2.0	01100	4K2K60Hz_444, Dolby/DTS 5.1 HDR
11011	1080I, Dolby/DTS 5.1	01011	4K2K60Hz_444, HD Audio 7.1HDR
11010	1080I, HD Audio 7.1	01010	COPY_FROM_LOOP OUT
11001	1080P 3D, Stereo Audio 2.0	01001	COPY_FROM_HDBT OUT1
11000	1080P 3D, Dolby/DTS 5.1	01000	COPY_FROM_HDBT OUT2
10111	1080P 3D, HD Audio 7.1	00111	COPY_FROM_HDBT OUT3
10110	4K2K30Hz_444, Stereo Audio 2.0	00110	COPY_FROM_HDBT OUT4
10101	4K2K30Hz_444, Dolby/DTS 5.1	00101	COPY_FROM_HDBT OUT5
10100	4K2K30Hz_444, HD Audio 7.1	00100	COPY_FROM_HDBT OUT6
10011	4K2K60Hz_420, Stereo Audio 2.0	00011	COPY_FROM_HDBT OUT7
10010	4K2K60Hz_420, Dolby/DTS 5.1	00010	COPY_FROM_HDBT OUT8
10001	4K2K60Hz_420, HD Audio 7.1	00001	1080P, Stereo Audio 2.0
10000	4K2K60Hz_444, Stereo Audio 2.0	00000	PC control mode

Order Code:

HDB821-4K-150	HDBaseT Splitter 2 to 8 Transmitter with two sets one-HDMI-output Receiver
HDB822-4K-150	HDBaseT Splitter 2 to 8 Transmitter with two sets two-HDMI-output Receiver
HDB101-4K-150-RX	HDBaseT Extender one-HDMI-output Receiver only
HDB102-4K-150-RX	HDBaseT Extender two-HDMI-output Receiver only