

HDB40x-4K-150 HDBaseT Splitter



HDB400-4K-150-TX front view



HDB400-4K-150-TX back view



HDB101-4K-150-RX



HDB102-4K-150-RX

This 18Gbps HDMI 1x4 HDBaseT Splitter can connect one source and distribute the signal to up to eight displays, support video resolution up to 4K2K@60Hz 4:4:4. It is designed with 1 HDMI loop output and 4 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 HDMI loop output and 4 HDBaseT outputs at Splitter Transmitter
- Support digital and analog audio de-embedded output
- Support image import and display time configure via Web GUI
- 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]
Transmitter Output	1 × HDMI Type A [19-pin female] 4 × HDBaseT OUT [RJ45] 1 × Coaxial Audio OUT [RCA] 1 × L/R Audio OUT [5-pin phoenix connector]
Transmitter Control	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: 220mm (W) × 130mm (D) × 40mm (H); Receiver: 160mm (W) × 88mm (D) × 20mm (H)
Weight	Transmitter: 853g Receiver: 350g (HDB101-4K-150-RX); 400g (HDB102-4K-150-RX)
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 24V/2.7A (US/EU standards, CE/FCC/UL certified)
Power Consumption	35W
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	1080P, Stereo Audio 2.0
10100	4K2K30Hz_444, HD Audio 7.1	00100	1080P, Stereo Audio 2.0
10011	4K2K60Hz_420, Stereo Audio 2.0	00011	1080P, Stereo Audio 2.0
10010	4K2K60Hz_420, Dolby/DTS 5.1	00010	1080P, Stereo Audio 2.0
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:

HDB401-4K-150	HDBaseT Splitter 1 to 4 Transmitter with four sets one-HDMI-output Receiver
HDB402-4K-150	HDBaseT Splitter 1 to 4 Transmitter with four 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