



4K HDBase-T Decora Wall Plate Transmitter - THBD-210

Part Number:	THBD-210
Revision Number:	1.0
Date:	08-01-2018
Page Number:	1 of 3

Introduction

The THBD-210 combines the high bandwidth of HDMI 2.0 with the far transmission distances of HDBaseT, in a customizable wall plate design compact enough to fit on a decora plate. Utilizing a special HDMI-to-HD-baseT conversion processor, the THBD-210 is capable of transmitting up to 40 meters, 4K60 signals - far exceeding the 10.2Gbps limitation of standard HDBaseT hardware. In addition, the THBD-210 features RS232 pass-through and Power over Cable (POC) to match performance with convenience.

Features

- HDMI 2.0b: 18Gbps and HDCP 2.2 compliant
- Up to 4K2K@60Hz (4:4:4)
- Up to 7.1 channels HD audio
- HDBaseT™ over a single CAT 6/6a cable up to 230ft/70m distance 1080p or 131ft/40m at 4K@60Hz
- Fits on a decora wall plate
- Two-way IR and RS-232
- PWR/LINK/HDCP indicators
- POC (Power Over Cable) function is supported, either TX or RX is powered by 24V1A power supply, and the other does not need a separate supply. POC Power consumption is less than 10W.
- Transfer Bidirectional Infrared control signal together with the HDMI signal.
- Transfer Bidirectional RS-232 control signal together with the HDMI signal.

Package Contents

- THBD-210 - 1PC
- User Manual - 1PC
- Phoenix connector (2 holes) - 1PC
- Phoenix connector (3 holes) - 2PC

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Revision Number:	1.0
Date:	08-01-2018
Page Number:	2 of 3

Technical Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 1.4 and HDCP 2.2
Video Bandwidth	18 Gbps
Video Resolution	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	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Optical Audio Formats	LPCM 2CH, LPCM 5.1, Dolby Digital 2/5.1CH, DTS 2/5.1CH
ESD Protection	Human body model—±8kV (Air-gap discharge) &±4kV (Contact discharge)
Connectors	
Transmitter	Inputs: 1x HDMI Type A [19-pin female] 1x IR INPUT [Phoenix jack] 1x RS-232 [Phoenix jack] Outputs: 1x HDBaseT Out [RJ45] 1x IR OUTPUT [Phoenix jack] 1x 5v OUTPUT [Phoenix jack]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	103.5mm [W] x 46mm [D] x 30mm [H]
Weight	163g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	9W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

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Part Number:	THBD-210
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Date:	08-01-2018
Page Number:	3 of 3