

[CAT6/STP Balun Devices]

HDMI/DVI & Audio via CAT6/STP with Bi-Directional RS-232 & IR Smart Baluns™



KD-BBTX NEW

HDMI/DVI Video, Analog & Digital Audio Smart Balun™ with Control via single CAT6/STP **TRANSMITTER**



Key Features

- › Extends HDMI or DVI Video, L/R Analog, or PCM Digital Audio, IR and RS-232 over a single CAT6/STP cable
- › Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz)
 - › SD & HD: 480i, 480p, 720p, 1080i, 1080p
 - › VESA / VGA (RGBHV): From 640x480p up to 1920x1200p
- › Full Support for HDMI® 1.4 with HDCP, 12-Bit Deep Color Video
- › Supports lossless compressed digital audio:
 - › Dolby® TrueHD, Dolby® Digital Plus and DTS™-HD Master Audio)
- › Bi-Directional and Simultaneous IR and RS-232
- › Audio Toggle Switch for Analog / Digital Audio Selection

Key Benefits

- › Transmits (KD-BBTX) and receives (KD-BBRX) HDMI Video, HDMI Audio, Digital or Analog Audio, IR and RS-232 over a single CAT6/STP cable
- › Transmits 1080p/60 signals up to 140 feet, 1080p/24 signals up to 270 feet over a single CAT6/STP cable
- › Compatible with KD-HDMS4X4 & KD-HDMS8X8 HDMI/CAT6 Matrix Switchers
- › Allows long distance extension of HDMI/DVI signals with use of less expensive CAT6/STP cabling for HDMI/DVI signal distribution

HDMI® 1.4 Features

- › **3D** – Capability to pass 3D stereoscopic signal formats
- › **4K** – 4096x2160/24 video resolution support for commercial applications such as Digital Movie Theaters, CAD, Post Production, Graphics and etc.

KD-BBRX NEW

HDMI/DVI Video, Analog & Digital Audio Smart Balun™ with Control via single CAT6/STP **RECEIVER**



Specifications

Technical:

- › Inputs/Outputs: 1 HDMI connector, 1 stereo analog balanced or unbalanced audio 1VRMS/10KΩ on a Phoenix connector; 1 digital S/PDIF audio 0.5Vpp/75Ω on an RCA connector, RS-232 Tx, Rx line and ground on Phoenix connector; wired IR bi-directional on Phoenix connector; 1 CAT6 Input on a shielded RJ-45 connector (for video/audio/data)
- › Bandwidth: TMDS bandwidth 10.2 Gb/s
- › EQ Adjustments: Precise Auto Adjust, Distance Measurement
- › HDMI® and HDCP Licensing: Fully licensed and compatible with all HDMI and HDCP technologies
- › Link and Range: 1080i/60, 720p, 1080p/24 UTP up to 250 ft. CAT6 UTP up to 280 ft.
- › Deep Color Support: Supports Digital Video Formats in Deep Color Mode at up to 12 bits/color
- › Additional Non-HDMI Audio: Left and Right Balanced or unbalanced on Phoenix connector or Coaxial Digital Audio S/PDIF on RCA connector
- › DDC Signal (Data): Input DDC Signal: 5 Volts p-p (TTL)
- › HDMI Video/Audio Signal: Input Video Signal: 1.2 Volts p-p
- › HDMI Connector: Type A, 19 Pin Female
- › RJ45 Connector: Shielded Link Connector RJ45
- › DDC Communication: EDID and HDCP Transparency from Display to Source
- › Additional Non-HDMI Wired RS-232: RS-232 Tx and Rx Line active and bi-directional up to 115,200 baud rate
- › Additional Non-HDMI Wired IR: IR line, active and bi-directional 0-5V TTL or -10 – 10V
- › Power: External UL Certified Power Supply – 5V DC / 2A, 110-240 VAC, 50-60 Hz

General

- › Regulation: CE, RoHS, WEEE
- › Enclosure: Black Metal
- › Accessories: Mounting Clip, HDMI Cable Clip
- › Product Dimensions: L = 2.75" W = 2.5" H = 1.5"
 - › Product Weight: 0.6 lb
- › Shipping Carton Dimensions: L = 4.75" W = 8" H = 3"
 - › Shipping Weight: 1.5 lbs



System Design Example

