# CAT5/6/7 Balun Devices

### CAT5/6/7 HDMI/DVI & Audio with Bi-Directional RS232 & IR Smart Baluns™



# **KD-BBTX**

HDMI/DVI Video, Analog & Digital Audio Smart Balun™ with Control over single CAT5/6/7 **TRANSMITTER** 







## **Key Features**

- > Extends HDMI or DVI Video, L/R Analog, or PCM Digital Audio, IR and RS-232 over a single CAT5/6/7 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 HDCP, HDMI 1.3a/b, Deep Color (12 bits/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 CAT5/6/7 cable
- > 1080p/60 signals up to 150 feet, 1080p/24 signals up to 250 feet over a single CAT5/6/7 cable
- Compatible with KD-HDMS4X4, 4 Inputs to 4 Outputs HDMI Matrix Switcher
- Compatible with all video resolutions
- Allows extension of HDMI signals distances that standard HDMI cables cannot achieve
- Enables the use of less expensive CAT5/6/7 cabling for HDMI/DVI signal distribution

# **KD-BBRX**

HDMI/DVI Video, Analog & Digital Audio Smart Balun™ with Control over single CAT5/6/7 **RECEIVER** 







## **Specifications**

#### Technical:

- » Inputs/Outputs: 1 HDMI connector, 1 stereo analog balanced or unbalanced audio 0dBu/1kΩ, 0.5V/75Ω, on a Phoenix connector; 1 digital S/PDIF audio on RCA connector; RS-232 Tx, Rx lines and ground on Phoenix connector; wired IR bi-directional modulated or un-modulated on Phoenix connector; 1 CAT 5 IN on shielded RJ-45 connector (video/audio/data)
- » Bandwidth: TMDS bandwidth 10.2 Gb/s
- » EQ Adjustments: Precise Auto Adjust, Distance Measurement
- » Compliance w/ HDMI Standards: Supports HDMI1.3+, HDMI1.2, HDMI1.1, DVI1.1 and HDCP
- » Link and Range: Single Link Range: (1080p/60) 12 bit color depth, 1920x1200 max 150 ft; (1080i/60, 720p, 1080p/24) UTP 250 ft, STP 275 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
- » I2C 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 modulated or not modulated, active and bidirectional 0-5V TTL or -10 - 10V
- » Power: External UL Certified Power Supply. 5V DC / 1A, 110-240 VAC, 50-60 Hz

### General

- » Regulation: CE, RoHS, WEEE
- » Product Dimensions: L = 2.75" W = 2.5" H = 1.5"
- » Shipping Carton Dimensions: L = 4.75" W = 8" H = 3"
- » Accessories: Mounting Clip, HDMI Cable Clip
- » Enclosure: Black Metal
- » Rack Mount: Bracket (included)
- » Product Weight: 0.6 lb
- » Shipping Weight: 1 lbs



