CAT5/6/7 Component/VGA & Audio with Bi-Directional RS232 & IR Smart Baluns™

FatCAT SERIES™

KD-VACTX

Component/VGA Video, Analog Audio, Digital Audio, and IR/RS-232 Control over Single CAT5/6/7 Transmitter Balun

Tx

KD-VACRX

Component/VGA Video, Analog Audio, Digital Audio, and IR/RS-232 Control over Single CAT5/6/7 Receiver Balun

Rx

KD-VACWPRX

Component/VGA Video, Analog Audio, Digital Audio, and IR/RS-232 Control over Single CAT5/6/7 Wall Plate Receiver Balun

Rx

Key Features

› Extends VGA (RGBHV) or Component (YPrPb) Video, L/R Analog, PCM, or Toslink 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

› Includes breakout cable for Component Video

› Auto Video Equalizer Compensation when used with KD-VACRX or KD-VACWPRX

› Optimized for UTP cables

Key Benefits

› Transmits VGA (RGBHV) or Component (YPrPb) Video signals up to 1,000 feet over a standard UTP CAT5/6/7 cable

› Can handle all standard audio formats, stereo formats, digital S/PDIF

› Can be used with other FatCAT Series™ Baluns, and the KD-MSCAT8X8 Hercules Series™ Switchers

Specifications

Technical:

» **Inputs/Outputs:** 1Vpp/75Ω VGA/UXGA on an HD15 female connector; YPrPb 1Vpp/75Ω on VGA male to three RCA female breakout cable (included); 1 0dBu/1kΩ, 0.5V/75Ω Stereo analog balanced or unbalanced audio on a Phoenix connector; 1 digital S/PDIF audio on RCA connector; 1 digital S/PDIF optical audio on a Toslink connector; RS-232 Tx, Rx lines and ground on Phoenix connector; wired IR bi-directional modulated or un-modulated on Phoenix connector; 1 CAT5 on shielded RJ45 connector (video/audio/data)

» **Resolution:** Up to UXGA; 1080p

» **Equalization and Gain Adjustment:** Auto adjustment in the KD-VACRX or KD-VACWPRX by continued CAT5 cable length measurement up to 1,000 ft.

» **RS-232 Link:** Tx line, Rx line, and ground always active 0-5V TTL or +/- 10V DC coupled, baud rate up to 115,200. Input and output are baud rate transparent.

» **Wired IR Link:** 0-5V or +/- 10V DC coupled, bi-directional, modulated or un-modulated, data transparent

» **K-Factor:** 0.22 % @ optimal EQ

» **Video Isolation (Crosstalk):** -45 dB @ 5 MHz

» **Analog Audio Max Input/Output Level:** 4dBu on AC coupling (input); 4dBu on DC coupling (output)

» **Audio Bandwidth:** 20Hz to 20kHz, @ 0dBu

» **Analog Audio Sample Rate Conversion:** 48kHz

» **Resolution Conversion:** 24 bits

» **Power:** External Power Supply – 5V DC / 1A; UL Certified

General

» **Regulation:** CE, RoHS, WEEE

» **Enclosure (KD-VACTX, KD-VACRX):** Black Metal

» **Enclosure (KD-VACWPRX):** Wall Plate

» **Product Weight:** 0.6 lb

» **Shipping Weight:** 1 lbs

» **Product Dimensions:** L = 2.75" W = 3" H = 1.5"

» **Shipping Carton Dimensions:** L = 4.75" W = 8" H = 3"

» **Accessories:** Mounting Clip, VGA to 5-Wire Breakout Cable, Power Supply

System Design Example

*All Component sources can be substituted with RGBHV

*All RGBHV sources can be substituted with Component