HDBaseT/HDMI via CAT5e/6 Extenders

KD-X422POA

4K Power over HDBaseT/HDMI (Tx + Rx Set) Extenders, Audio De-Embedding,
HDR10, HDCP2.2

Key Features

- › **HDBaseT via Single CAT5e/6 UTP/STP Extension:** With fully automatic adjustment of feedback, equalization, and amplification depending on cabling length
- › **Power Over HDBaseT:** Features power extension from Tx to Rx with Power Over HDBaseT, Rx unit does not require power supply
- › **Signal Extension:**
  - » Up to **150 ft. @ 4K** 24/25/30(4:4:4)/60(4:2:0) using KD-CAT6STP1X cabling
  - » Up to **125 ft. @ 4K** 24/25/30(4:4:4)/60(4:2:0) using third-party CAT5e/6 UTP/STP cabling
  - » Up to **250 ft. @ 1080p** / 1920x1200 using KD-CAT6STP1X cabling
  - » Up to **230 ft. @ 1080p** / 1920x1200 using third-party CAT5e/6 cabling
- › **HDCP 2.2:** Compliancy up to HDCP 2.2 and backward compliant
- › **HDR10 (High Dynamic Range):** More life-like images through a greater range of luminance levels
- › **4K/Ultra HD Resolution:** Support for 4096x2160 or 3840x2160 24/25/30Hz at 4:4:4/8 Bit or 60Hz at 4:2:0/8 Bit
- › **Deep Color Support:** Up to UHD/4K 30Hz 4:2:2/12 bits or 60Hz 4:2:0/8 bit
- › **HDMI® and HDCP Licensing:** Fully licensed and compatible with HDCP 2.2 and HDMI latest technology such as 4K/UHD 4:2:0/8bit at 60f/s
- › **EDID Control:** Internal library features 15 default EDID configurations and native EDID data from Output/Display devices connected via Rx
- › **Hot Plug Detection Control:** Enables integrator to choose if active signal voltage is forced to connected input devices
- › **Full Buffer System™:** Manages TMDS re-clocking / signal re-generation, HDCP authentication with source & display, EDID Control handshake, and Hot Plug control
- › **Low Profile:** Super slim chassis design
- › **IR Sensor:** Sensor powering via +5V on Tx unit's IR In port collects line-of-sight IR from remote(s) without external IR connecting block
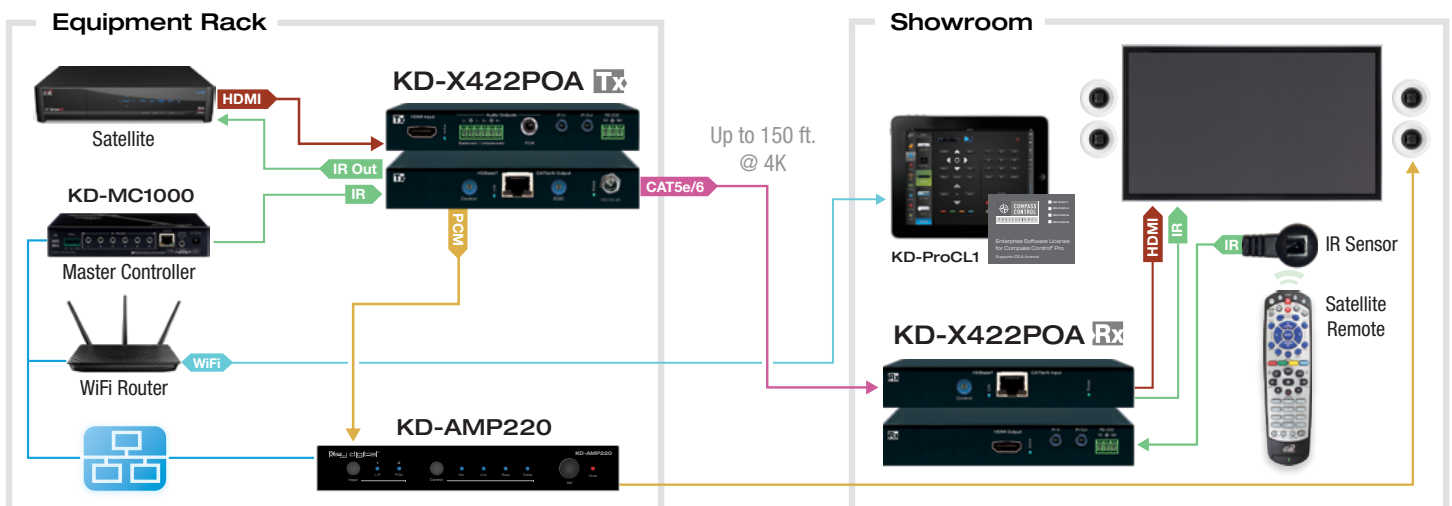

- › **Up/Down IR:** Two channels of IR enable control to/from devices connected to Tx and Rx units
- › **RS-232:** Bi-Directional control to/from Tx and Rx unit on Phoenix connector
- › **Rotary Switch RS-232 Control Mode:** Provides control of Tx unit as well as connectivity status
- › **Lossless compressed digital audio:** Support for Dolby® TrueHD, Dolby® Digital Plus, Dolby Atmos®, and DTS-HD Master Audio™
- › **CEC Support:** For inter-device control between input and output HDMI channel
- › **I2C Communication:** EDID and HDCP authentication to Display and Source
- › **Control System Support:** Fully controllable by all RS-232 supported control systems via open API: Compass Control® Pro, AMX®, Crestron®, KNX®, RTI®, Savant, URC®, Leviton® etc.

Specifications

- › Regulation: CE, RoHS, WEEE
- › Enclosure: Black Metal
- › Product (Each): 5" x 4.06" x 1.06", Weight: 0.5 lbs
- › Power (Tx Only): KD-PS12V2ASC, 12V/2A, 100-240VAC, 50-60Hz, Interchangeable head with screw-in connector
- › Accessories: (2) Mounting brackets, (1) IR emitter, (1) IR sensor, (1) 6 pin terminal plug, (2) 3 pin terminal plug

System Design Example

* For all installations, we highly recommend use of KD-CAT6STP1X STP cabling, especially in hostile electrical environments. The shield of CAT6STP must be soldered on both ends to the shield of RJ45 connector used. The CAT5/5e/6 cable has to be terminated according to TIA/EIA-568-B standard. The use of STP CAT5, 5e is not recommended.