

## CAT5e/6 Extenders

# KD-X222

HDBaseT/HDMI via CAT5e/6 Extenders, Series X (Tx + Rx Set)

### Key Features

- ▶ **HDBaseT via Single CAT5e/6 UTP/STP Extension:** With fully automatic adjustment of feedback, equalization, and amplification depending on cabling length
- ▶ **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
- ▶ **3D:** Support for standard 3D stereoscopic signal formats
- ▶ **Low Profile:** Super slim chassis design
- ▶ **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
- ▶ **IR Sensor:** Sensor powering via +5V on Rx 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



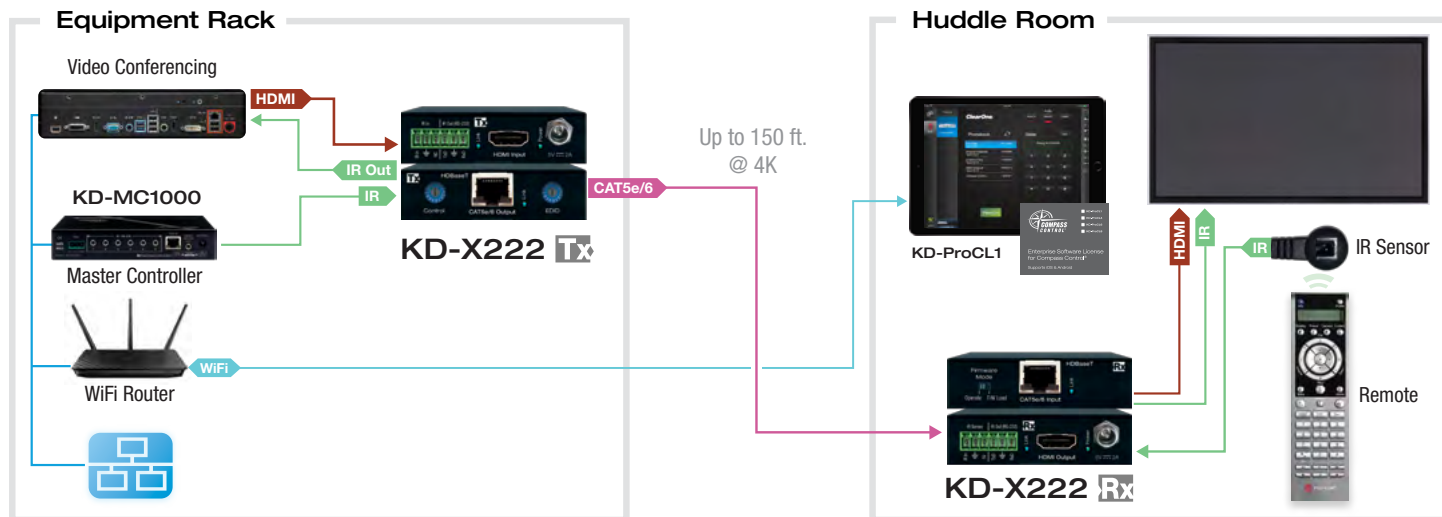
- ▶ **RS-232:** Bi-Directional control to/from Tx and Rx unit on Phoenix connector
- ▶ **Rotary Switch RS-232 Control Mode:** Provides control of Tx unit as well as connectivity status
- ▶ **Lossless compressed digital audio:** Support for Dolby® TrueHD, Dolby® Digital Plus, Dolby Atmos®, and DTS-HD 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®, AMX®, Crestron®, KNX®, RTI®, Savant®, URC®, Leviton® etc.

### Specifications

- ▶ Regulation: CE, RoHS, WEEE
- ▶ Enclosure: Black Metal
- ▶ Product (Each): 4.1" x 2.8" x 0.875", Weight: 0.75 lbs
- ▶ Power: (2) KD-PS5V2ASC, 5V/2A, 100-240VAC, 50-60Hz, Interchangeable head with screw-in connector
- ▶ Accessories: (2) Mounting Brackets, (1) IR Emitter, (1) IR Sensor

LIMITED  
**10 YEAR**  
WARRANTY

### 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.