

4K HDBaseT™/HDMI® Extenders



KD-X400ProK

HDBaseT/HDMI via Single CAT5e/6 (Tx + Rx Set) Extenders, support Ultra HD/4K, EDID Control, Hot Plug Control, Full Buffer System, IR Sensor, Up/Down IR & RS-232

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/24/25/30/60 using KD-CAT6STP1X cabling
 - » Up to 125 ft. @ 4K/24/25/30/60 using third-party CAT5e/6 UTP/STP
 - » Up to 250 ft. @ 1080p/1920x1200 using KD-CAT6STP1X cabling
 - » Up to 200 ft. @ 1080p/1920x1200 using third-party CAT5e/6 UTP/STP
- ▶ **4K/Ultra HD:** Support for 4096x2160 or 3840x2160 24/25/30Hz at 4:4:4 or 60Hz at 4:2:0
- ▶ **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 and output devices
- ▶ **Full Buffer System™:** Manages TMDS re-clocking / signal re-generation, HDCP authentication to source & display, and EDID Control handshake
- ▶ **IR Sensor:** Sensor powering via +5V on IR In ports 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 DB9 connector
- ▶ **RS-232 Control Mode:** Provides control of Tx unit as well as connectivity status
- ▶ **3D:** Support for standard 3D stereoscopic signal formats
- ▶ **Deep Color Support:** 12bit Deep Color video / 8bit color for 4K/60
- ▶ **Lossless compressed digital audio:** Support for Dolby® TrueHD, Dolby® Digital Plus and DTS-HD Master Audio™
- ▶ **CEC Support:** For inter-device control between main input and output HDMI channel



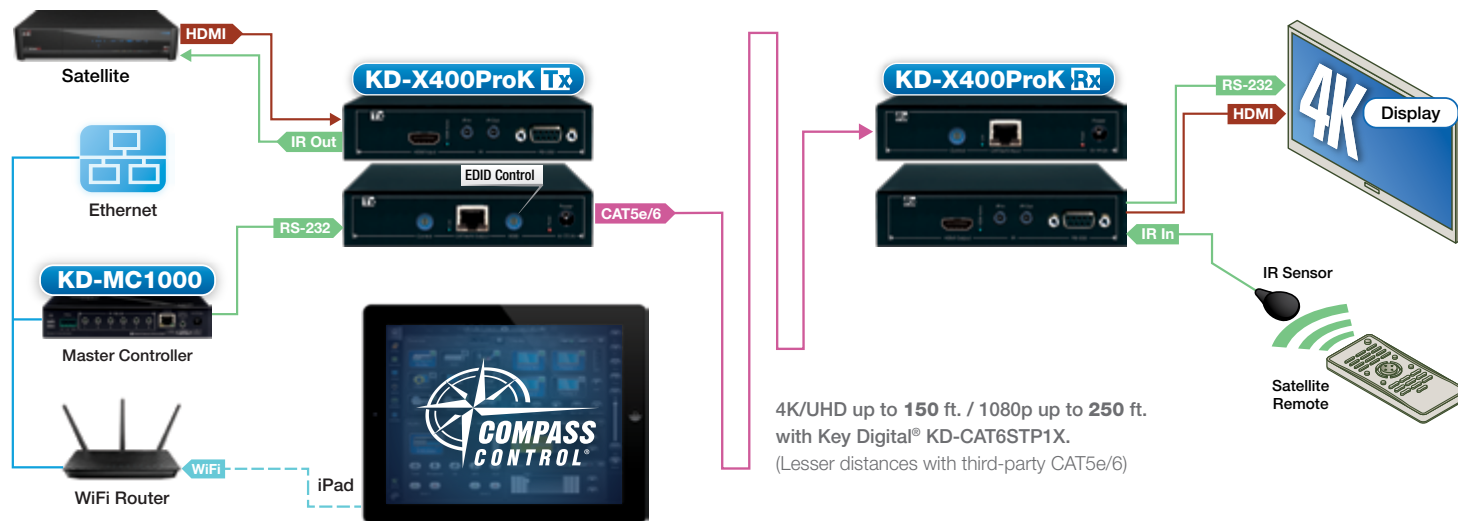
- ▶ **Daisy Chaining:** Connection of Tx and Rx units allows almost unlimited extension of HDMI, RS-232, IR and Ethernet signals
- ▶ **HDMI® and HDCP Licensing:** Fully licensed and compatible with all HDMI and HDCP technologies
- ▶ **I2C Communication:** EDID and HDCP authentication to Display and Source
- ▶ **Control System Support:** Compatible with Compass Control®, AMX®, Control4®, Crestron®, KNX®, RTI®, Savant, URC®, Honeywell®, HAI®, Leviton® etc.

Specifications

- ▶ Inputs Tx: HDMI, IR In, RS-232
- ▶ Outputs Tx: CAT5e/6 UTP/STP, IR Out
- ▶ Inputs Rx: CAT5e/6 UTP/STP, IR In
- ▶ Outputs Rx: HDMI, IR Out, RS-232
- ▶ Regulation: CE, RoHS, WEEE
- ▶ Enclosure: Black Metal
- ▶ Product (Each): 6" x 4.1" x 1.2", Weight: 0.8 lbs
- ▶ Shipping Carton: 15.4" x 8.7" x 3.6", Weight: 4 lbs
- ▶ Power Supply: (2) KD-PS5V2ASC, 5V/2A, 100-240VAC, 50-60Hz, Interchangeable head
- ▶ Power Consumption: Tx - 2.5 Watts, Rx - 5 Watts
- ▶ Accessories: (2) Mounting Brackets, (1) Grounding Wire, (1) IR Emitter: KD-IRE3501F1, (1) IR Receiver/Sensor: KD-IRSR001



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.