

CAT5e/6 Extenders



KD-CATHD250Lite

HDBaseT/HDMI "Lite" via Single CAT5e/6 Extenders (Tx + Rx Set) with Buffer System and IR/RS-232, supports Ultra HD/4K

Key Features

- › **Extends:** HDBaseT/HDMI via Single CAT5e/6 cable
- › **Control Signal Extension:** Uni-directional IR OR bi-directional RS-232 control via 3.5mm stereo connection on Tx and Rx units
- › **HDBaseT:** Utilized on CAT5e/6 RJ45 output
- › **Signal Extension:**
 - › Up to **250 feet** @ 1080p/60, 1920x1200 via KD-CAT6STP1X CAT6/STP
 - › Up to **210 feet** @ 1080p/60, 1920x1200 via CAT5e/UTP cable
 - › Up to **120 feet** @ **Ultra HD/4K** (2160p/24) via KD-CAT6STP1X CAT6/STP
- › **3D Ready:** Capability to pass 3D stereoscopic signal formats
- › **Ultra HD/4K:** 2160p/24 video resolution support for 4K-capable televisions and commercial applications such as Digital Movie Theaters, CAD, Post Production
- › **Buffer System:** Manages TMDS re-clocking / signal re-generation
- › **Auto Adjustment:** Equalization depending on the length of cabling used
- › **Lossless Compressed Digital Audio:** Dolby® TrueHD, Dolby® Digital Plus and DTS-HD Master Audio™
- › **Deep Color Support:** 8-Bit at 2160p/24; 12-Bit at 480p/720p/1080i/1080p
- › **CEC Support:** To the main input and output HDMI channel.
- › **I2C Communication:** EDID and HDCP transparency from Display to Source
- › **Licensing:** Fully licensed and compatible with all HDMI and HDCP technologies
- › **Cabling Requirements:** Standard UTP CAT5, 5e or CAT6 cabling
 - › 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.



Tx/Rx

HDBaseT™
HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

3D **Ultra HD/4K**

Specifications

- › Inputs Tx: (1) HDMI, (1) 3.5mm Stereo IR / RS-232 (as either input or output)
- › Outputs Tx: (1) HDBaseT / RJ45
- › Inputs Rx: (1) HDBaseT / RJ45
- › Outputs Rx: (1) HDMI, (1) 3.5mm Stereo IR / RS-232 (as either input or output)
- › DDC Signal (Data): 5 Volts p-p (TTL)
- › HDMI Signal (Video/Audio): 1.2 Volts p-p 1080p/60
- › HDMI Connector: Type A, 19 Pin Female
- › RJ45 Connector: Shielded Link Connector
- › IR Connector: 3.5 mm stereo mini jack
- › Regulation: CE, RoHS, WEEE
- › Power Supply: 5V / 2A, 110-240 VAC, 50-60 Hz
- › Accessories: (2) Power Supplies, (2) Mounting Brackets, (2) Locking HDMI Cable Clips, (1) Grounding Wire
- › Product: 4" x 3" x 1.1", Weight: 0.6 lb.
- › Packaging: 8.66" x 3.54" x 3.34", Weight: 1.7 lbs.
- › Enclosure: Black Metal



System Design Example

