

4K HDMI HDBase-T Splitter/Extender via CAT5e/6

VOPEX®

Distribute Ultra-HD 4Kx2K 60Hz 4:2:0 HDMI Video, Multi-channel Audio, and IR to four displays up to 230 feet using CAT6 cable



- Transmits an uncompressed HDMI signal over one CAT5e/6 cable to multiple display locations.
 - Extend Ultra-HD 4Kx2K 60Hz 4:2:0 to 230 feet.
 - Extend 1080p and 1920x1200 to 328 feet.
- Supports Ultra-HD 4Kx2K resolutions (4096x2160 and 3840x2160 @24/30/60Hz YUV 4:2:0), HDTV resolutions to 1080p, and computer resolutions to 1920x1200.
- HDMI features supported:
 - 4:2:0 YUV
 - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, DTS 7.1 and LPCM.
 - 3D
 - Bandwidth up to 10.2 Gbps
 - Support for CEC (consumer electronic control) compatible devices.
 - Lip Sync
- HDCP 2.2/1.4 compliant.
- Supports the DDC2B protocol.
- Full Infrared Remote (IR) control of HDMI source or display. IR transport channel can be forward or backward per the installation.
- Output1 supports RS232 and Ethernet pass through.
- Configurable built-in EDID table.
- Compact 1RU design. – mounting kit included.
- Ideal for digital signage, tradeshow, or classrooms where high quality video on multiple displays is needed.

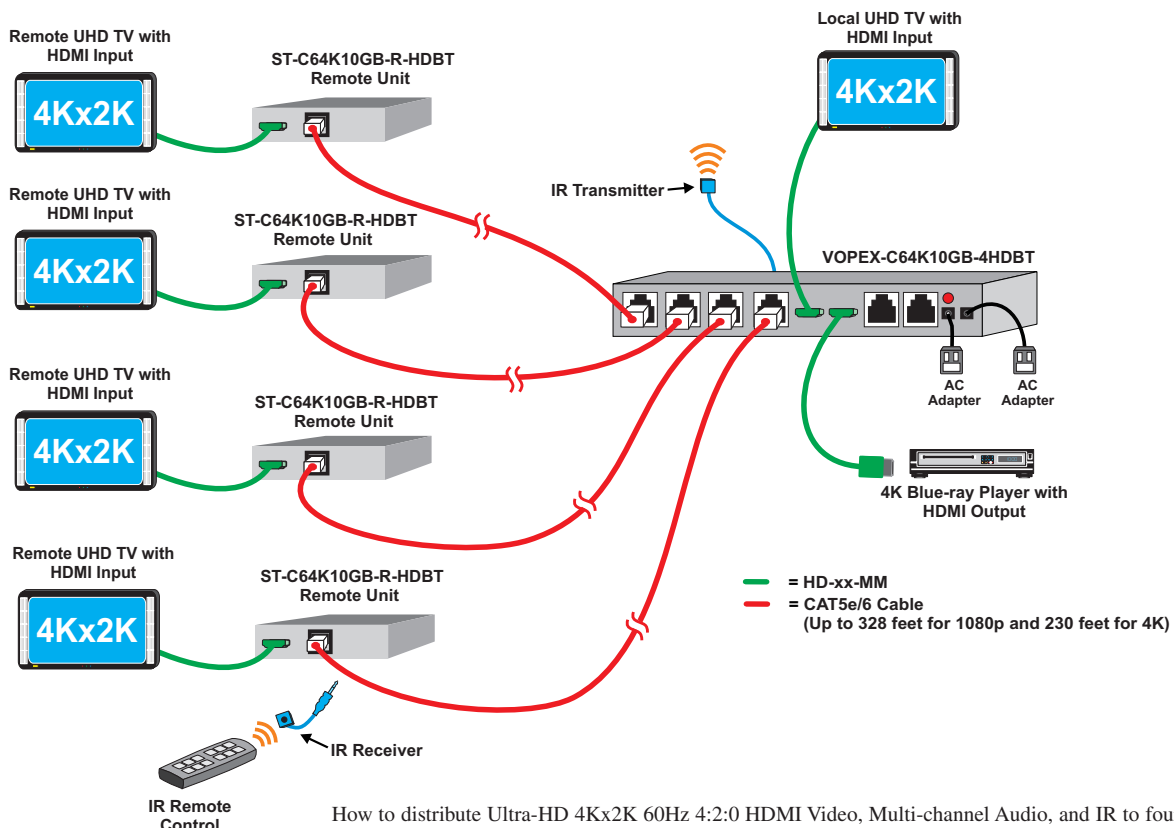


VOPEX-C64K10GB-4HDBT (Front & Back)

- **Extend Ultra-HD 4Kx2K 60Hz 4:2:0 to 230 feet**
- **Extend 1080p to 328 feet**
- **HDCP 2.2**
- **No power supply required for receivers**

The VOPEX® 4K HDMI HDBase-T Splitter/Extender simultaneously distributes uncompressed Ultra-HD 4Kx2K 60Hz 4:2:0 HDMI video, multi-channel audio, and IR from one video source to up to four displays and speakers, each located up to 230 feet away via CAT5e/6 cable using HDBase-T technology.

The VOPEX system consists of two components: the VOPEX-C64K10GB-4HDBT 4K HDMI HDBase-T broadcast unit, which connects to the HDMI source and also supplies video to a local display; and an ST-C64K10GB-R-HDBT receiver for each remote 4K HDMI display and speakers. The units are interconnected by CAT5/5e/6 cable.



How to distribute Ultra-HD 4Kx2K 60Hz 4:2:0 HDMI Video, Multi-channel Audio, and IR to four displays up to 230 feet using CAT6 cable

4K HDMI HDBase-T Splitter/Extender via CAT5e/6voPEX®

Distribute Ultra-HD 4Kx2K 60Hz 4:2:0 HDMI Video, Multi-channel Audio, and IR to four displays up to 230 feet using CAT6 cable

Specifications

Local Unit (VOPEX-C64K10GB-4HDBT)

- Compatible with computers and UHD video sources (satellite receivers, Blu-Ray players, etc) with HDMI video.
- Supports HDCP 2.2/1.4
- Video bandwidth: 10.2 Gbps
- One female HDMI connector for video source.
- One female HDMI connector for local display.
 - Supports Ultra-HD 4Kx2K resolutions to 4096x2160, HDTV resolutions to 1080p, and computer resolutions to 1920x1200.
 - 4Kx2K (4096x2160 and 3840x2160) @24Hz/30Hz/60Hz YUV 4:2:0.
- Eight female 3.5mm ports for IR transmitters and receivers.
 - IR transport channel is bi-directional – the transmitter or receiver can be connected to the switch.
 - IR frequency range: 38 to 56 kHz.
- Screw terminal for RS232.
 - Support full-duplex RS232 up to 115200 baud only when ST-C64K10GB-R-HDBT is connected to Output1
- Two female RJ45 100BaseT Ethernet ports for extending Ethernet connections to smart TVs. (Only supported on Output1)
 - Contact an NTI product consultant for information on compatible receiver.
- Four female RJ45 HDBase-T connectors for sending/receiving ultra-high definition video, audio, IR, and DDC signals.

Power

- Local unit (main and POC connectors):
 - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter.
 - Output: 12VDC, 3A
 - Power consumption: 15W
- Remote units: powered by local unit (VOPEX-C64K10GB-4HDBT)

Dimensions

- Local unit WxDxH (in): 12.01x6.50x1.57 (305x165.2x39.8 mm)
- Remote unit WxDxH (in): 4.13x2.80x0.98 (105x71x25 mm)

Environmental

- Operating temperature: 23 to 95°F (-5 to 35°C).
- Operating relative humidity: 5 to 90% non-condensing RH.

Regulatory Approvals

- CE, FCC, RoHS

Remote Unit (ST-C64K10GB-R-HDBT)

- Supports Ultra-HD 4Kx2K resolutions to 4096x2160, HDTV resolutions to 1080p, and computer resolutions to 1920x1200.
 - 4Kx2K (4096x2160 and 3840x2160) @24Hz/30Hz/60Hz YUV 4:2:0.
- One female HDMI connector.
- Two female 3.5mm ports for IR transmitter/receiver.
- Screw terminal for RS232.
 - Support full-duplex RS232 up to 115200 baud only when connected to Output1 on VOPEX-C64K10GB-4HDBT
- One female RJ45 HDBase-T connector for sending/receiving ultra-high definition video, audio, IR, DDC signals.
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.

Max Distance

- 230 feet (70 meters) for Ultra-HD 4Kx2K 60Hz 4:2:0 over CAT5e/6 cable.
- 328 feet (100 meters) for 1080p and 1920x1200 over CAT5e/6 cable.

Cables

- Use HD-xx-MM cable to connect an HDMI source or display.
 - Maximum HDMI cable length:
 - 50 feet for resolutions up to 4K @ 30Hz
 - 25 feet for resolutions up to 4K @ 60Hz
- Use CAT5e/6 solid straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included.

4K HDMI HDBase-T Splitter/Extender

| NTI Part # | Local or Remote Unit |
|----------------------|----------------------|
| VOPEX-C64K10GB-4HDBT | Local |
| ST-C64K10GB-R-HDBT | Remote |