4K 60Hz 4:4:4 HDMI Splitter/Extender via CAT5e/6
VOPEX®

Distribute Ultra-HD 4Kx2K 60Hz 4:4:4 18Gb HDMI Video, Multi-channel Audio, and IR to four displays up to 100 feet using CATx cable

- Transmits an uncompressed HDMI signal over one CATx cable to multiple display locations.
  - Extend Ultra-HD 4Kx2K 60Hz 4:4:4 to 100 feet.
  - Extend 4Kx2K 30Hz to 165 feet.
  - Extend 1080p to 200 feet.
  - Refer to the resolution chart in the specifications section for resolutions using different CATx cable types and lengths.
- Supports Ultra-HD 4Kx2K resolutions (4096x2160 and 3840x2160 @24/25/30/60Hz YUV 4:4:4) and HDTV resolutions to 1080p.
- HDMI features supported:
  - HDMI 2.0
  - YUV 4:4:4
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, DTS 7.1 and LPCM.
  - HDR
  - 3D
  - Bandwidth up to 600 Mhz (18 Gbps)
  - Support for CEC (consumer electronic control) compatible devices.
  - Lip Sync
- HDCP 2.2 compliant.
- Supports the DDC2B protocol.
- Built-in default EDID table.
- Ideal for digital signage, tradeshows, or classrooms where high quality video on multiple displays is needed.
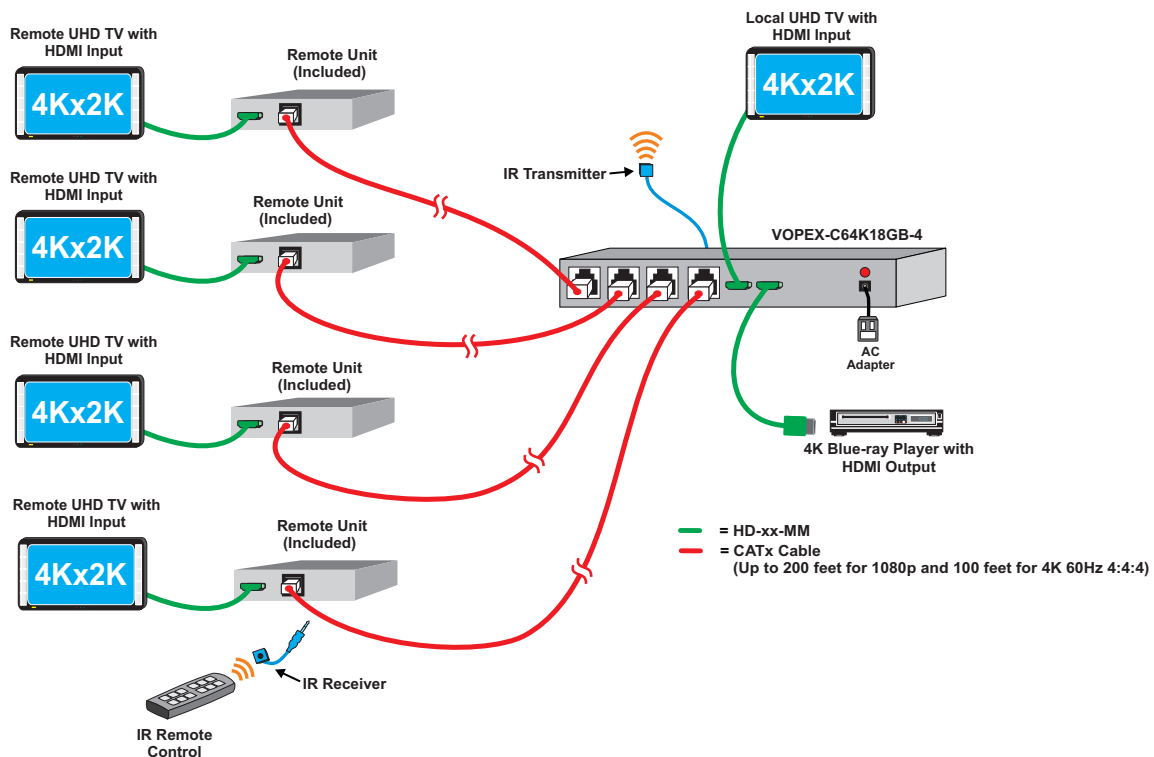

VOPEX-C64K18GB-4 Local Unit (Front & Back)

The VOPEX® 4K HDMI Splitter/Extender simultaneously distributes uncompressed Ultra-HD 4Kx2K 60Hz 4:4:4 HDMI video, multi-channel audio, and IR from one video source to up to four displays and speakers, each located up to 100 feet away via CATx cable.

The VOPEX-C64K18GB-4 system consists of two components: the 4K HDMI HDBase-T broadcast unit, which connects to the HDMI source and also supplies video to a local display; and a receiver (included) for each remote 4K HDMI display. The units are interconnected by CAT5e/6/6a/7 cable.

Configuration and Cable Illustration

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Distribute Ultra-HD 4Kx2K 60Hz 4:4:4 18Gb HDMI Video, Multi-channel Audio, and IR to four displays up to 100 feet using CATx cable

Specifications

Local Unit

- Compatible with computers and UHD video sources (satellite receivers, Blu-Ray players, etc) with HDMI video.
- Supports HDCP 2.2
- Video bandwidth: 18 Gbps
- One female HDMI connector for video source.
- One female HDMI connector for local display.
  - Supports Ultra-HD 4Kx2K resolutions to 4096x2160 and HDTV resolutions to 1080p.
    - 4Kx2K (4096x2160 and 3840x2160) at 24/25/30/60Hz YUV 4:4:4.
- One female 3.5mm port for IR transmitter.
  - IR frequency range: 20 to 60 kHz.
- Four female RJ45 connectors for sending/receiving ultra-high definition video, audio, IR, and DDC signals.
- Latency: 16mS

Remote Unit

- Supports Ultra-HD 4Kx2K resolutions to 4096x2160 and HDTV resolutions to 1080p.
  - 4Kx2K (4096x2160 and 3840x2160) at 24/25/30/60Hz YUV 4:4:4.
  - Refer to the resolution chart for resolutions using different CATx cable types and lengths.
- One female HDMI connector for HDMI display.
  - Does not support DVI displays.
- One female HDMI connector.
- One female 3.5mm port for IR receiver (included).
  - IR frequency range: 20 to 60 kHz.
- 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.

Power

- Local unit:
  - Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter.
  - Output: 12VDC, 3A
- Remote units: powered by local unit

Dimensions

- Local unit WxDxH (in): 8.37x4.00x1.22 (212.6x101.5x31 mm)
- Remote unit WxDxH (in): 3.21x3.98x0.81 (81.6x101x20.6 mm)

Environmental

- Operating temperature: 32 to 140°F (0 to 60°C).
- Storage temperature: -4 to 158°F (-20 to 70°C.)
- Operating/storage relative humidity: 20 to 90% non-condensing RH.

Regulatory Approvals

- CE, FCC, RoHS

Warranty

- Two years

Max Distance

- 100 feet (30 meters) for Ultra-HD 4Kx2K 60Hz 4:4:4 over CATx cable.
- 200 feet (61 meters) for 1080p over CATx 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 CATx solid or stranded straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- Cables not included.

Package Includes

- One transmitter
- Four receivers
- One IR blaster
- Four IR receivers
- Mounting brackets for transmitter and receivers
- One power adapter

Distances and Resolutions for CAT5e/6/6a/7 Solid or Stranded Cables					
Cable	**Distance (feet)**	**Resolution**	**Cable**	**Distance (feet)**	**Resolution**
CAT5e UTP or STP	50	4096x2160 and 3840x2160 at 60Hz YUV 4:4:4	CAT6a UTP	100	4096x2160 and 3840x2160 at 60Hz YUV 4:4:4
	165	4096x2160 and 3840x2160 at 30Hz YUV 4:4:4		165	4096x2160 and 3840x2160 at 30Hz YUV 4:4:4
	200	1080p at 60Hz		200	1080p at 60Hz
CAT6 STP	75	4096x2160 and 3840x2160 at 60Hz YUV 4:4:4	CAT7 STP	100	4096x2160 and 3840x2160 at 60Hz YUV 4:4:4
	165	4096x2160 and 3840x2160 at 30Hz YUV 4:4:4		165	4096x2160 and 3840x2160 at 30Hz YUV 4:4:4
	200	1080p at 60Hz		200	1080p at 60Hz
CAT5e UTP or STP	100	4096x2160 and 3840x2160 at 60Hz YUV 4:4:4			
	165	4096x2160 and 3840x2160 at 30Hz YUV 4:4:4			
	200	1080p at 60Hz			

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2