

RK8-HDX-ULT

8-Port HDMI, IR, RS232 and Power Extender Rack Over Cat5e/6



Consolidate up to eight 4K HDMI extenders in one powered rack unit to transmit HD signals up to 450 feet away using Cat5e/6 cables.

FEATURES

- Extends HDMI, IR, and Power Output over Cat5e/6
- Extends IR Control Signals for Remote Control
- Supports 1080p/60fps and 4K/30Hz resolution
- Supports Power over Ethernet (PoE) up to 300 ft
- Transmits up to 450 feet when both sides are powered
- Data Signals up to 3.4Gbps
- HDCP compliant; EDID learning
- Bi-directional IR and RS-232 control
- LED status indicators
- Rack mountable
- Up to 8 units on single rack



OVERVIEW

The RK8-HDX-ULT is the perfect solution for extending 4K HDMI signals to 8 remote locations 300 feet via PoE or up to 450 feet when both sides are powered, ensuring peak performance when transmitting ultra-high quality picture resolutions. The RK8-HDX-ULT is the perfect extender solution for any system, and works in tandem with SmartAVI matrixes for robust routing configurations. Plus, with RS-232 and IR remote control, taking command is convenient and easy every time!

It is the ideal way to consolidate up to eight workstation computers into one location. It is fully compatible with MAC, PC and LINUX HDMI standards. Up to eight displays can be extended easily from a rack without the mess or expense of multiple extenders. Rather than buy multiple extenders for rack components, and having to find power strips or numerous power outlets for the adapters, the SmartAVI rack series of extenders allows for up to eight transmitters and eight receivers with only one power supply.

Whether it's for a home entertainment system or a commercial installation, the RK8-HDX-ULT delivers flexibility and control. Don't let the distance bring your system down: let the RK8-HDX-ULT extend your reach today!

APPLICATIONS

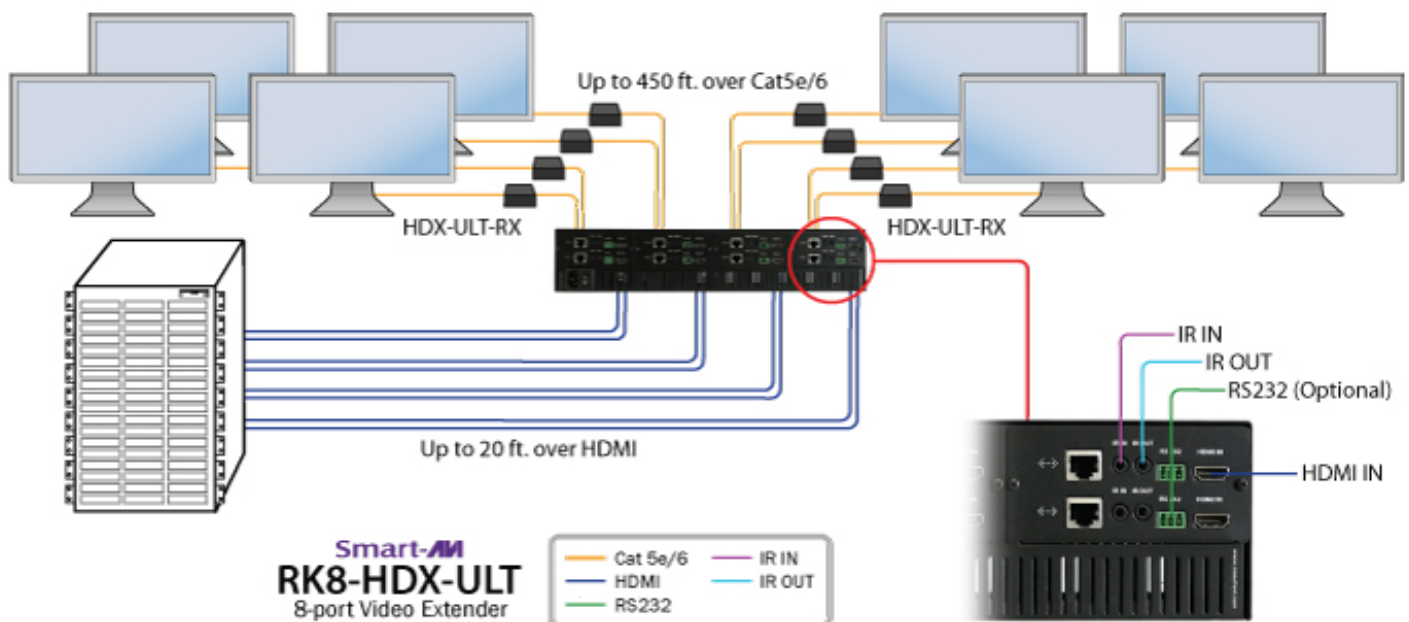
MEDICAL FIELD - In the medical field where sensitive electronic devices are used, isolating workstation computers can be a matter of safety. The RK8-HDX-ULT allows the workstation computers to be housed in a central location, away from sensitive devices.

INDUSTRIAL WORK AREAS - In industrial work areas that may be too harsh for a workstation computer, the RK8-HDX-ULT can consolidate the computers into a safe location.

DIGITAL SIGNAGE - When it comes to digital signage, the RK8-HDX-ULT is an excellent deployment option. With the RK8-HDX-ULT, up to eight digital signage devices can be centralized and secured from public access.

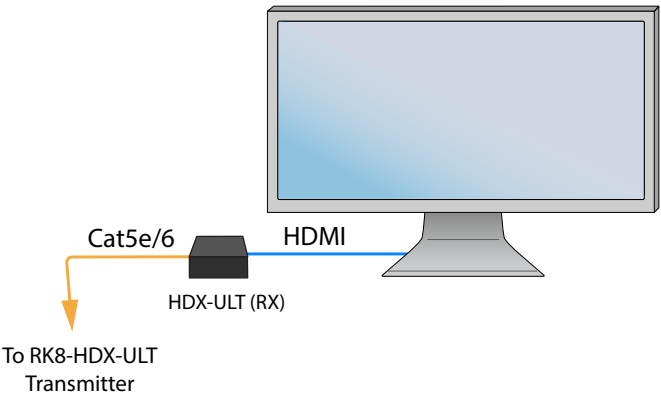
INFORMATION KIOSKS/DISPLAYS - As with most information booths and kiosks, there is a risk of damage or theft. The RK8-HDX-ULT is the best way to secure computer hardware, by consolidating it to a secure location away from public access.

APPLICATION DIAGRAM



RACK TO ENDPOINT - If your company uses a rack of source devices, whether it be computer servers, DVD players or other hardware, the RK8-HDX-ULT allows you to run all of those components into one extension box that supports up to eight inputs/outputs on one power supply. In this example, source signals are being routed from a company rack through the RK8-HDX-ULT to multiple displays. The rack utilizes SmartAVI's HDX-ULT-RX receiver unit at the end point to convert the Cat5e/6 feed back into an HDMI signal.

HDX-ULT-RX



SmartAVI's HDX-ULT-RX is an innovative solution to extending any HDMI signal – be it a gaming console, Blu-Ray player, computer, etc. – over inexpensive Cat5/e6 STP cabling up to 450 feet away to one remote display and one local screen for realtime monitoring of content. This is the perfect solution for broadcasting high-definition media easily and inexpensively from a source to display screen for customers to view while keeping the CPU in a remote, secure location such as a computer room or back office of a business. Utilizing the HDX-ULT-RX, users can monitor what's being shown to customers in real-time via a local display while users retain full control over the CPU or HDMI source, accessible only by key personnel. The HDX-ULT-RX is a compact unit that is easily integrated into a digital display network in a retail store, bar/lounge or other venue. The receiver unit is small and light, which makes inclusion into infrastructure very simple.



HDX-ULT-RX Front



HDX-ULT-RX Back

VIDEO	
Format	HDMI 1.3 and HDCP Compliant
HDTV Resolutions	Up to 4K (3840x2160 @ 30Hz)
Audio	HDMI Digital Audio
Input Interference	RJ-45 for Cat5e/6
Output Interference	HDMI, HDBT, IR, RS-232
Input Cable Length	Up to 450 ft over Cat5e/6
Output Cable Length	Up to 20 ft over HDMI

IR	
Signal Type	38 KHz
OTHER	
Power	External 100-240 VAC/5V-12V@20W
Dimensions	5"W x 1.125"H x 4.125"D
Weight	0.6 lbs
Approvals	UL, CE, ROHS Compliant
Operating Temp.	32-131°F (-5-70 °C)
Operating Humidity	5-95%

SPECIFICATIONS

RK8-HDX-ULT
Front



RK8-HDX-ULT
Rear



VIDEO	
Format	HDMI 1.3 (HDCP Compliant)
Resolutions	800x600, 1024x768, 1280x1024, 1366x768, 1920x1200, 480i, 720p, 1080i, 1080p, 4K x 2K @30Hz @24bit
Transmission Distance	450 feet (135 meters)
Color Depth	Deep Color 36/30/24 Bit at 1080p and 3D
Audio Format	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
IR Range	38kHz, 56kHz
Video Bandwidth	10.2Gbps
Input Video Signal	1.2 Volts P-P
Input DDC Signal	1.5 Volts (TTL)
I/O Connector (Transmitter)	
Input	8 x (HDMI-A) 19PIN Socket
Output	8 x RJ45 Jack

I/O Connector (Receiver)	
Input	1 x RJ45 Jack
Output	1 x 3.5mm Jack for IR Emitter 1 x HDMI-A 19PIN Socket
MECHANICAL (Transmitter)	
Dimensions	17"W x 3.6"H x 3"D
Weight	4.3 lbs
Power	110/220V
ENVIRONMENTAL	
Operating Temperature	+0 to +40° C (+32° to 104° F)
Humidity	10% to 85% (Non-condensing)
Storage Temperature	-20° to +60°C (-4° to +140° F)
SAFETY	
Certificate	FCC, CE, RoHS
Power Adapter	UL, CE, FCC, RoHS

ORDERING INFORMATION

Part No.	Description
RK8-HDX-ULT-S	8-Port HDBaseT HDMI, RS232 and IR Rack Mountable Extender Transmitter over CAT5 with PoE support, up to 450ft. Includes: [RK8- HDX-ULT and CCPWR06]

OPTIONAL

Part No.	Description
HDX-ULT-RX-S	HDMI, IR, and RS-232 PoE Receiver. Includes: [HDX-ULT-RX and PS12VD2A-WLLMNT]



Designed and Manufactured in the USA

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