4K HDMI IP KVM Extender, IPKVM-500-ED

Descriptions

The OPTICIS 4K HDMI IPKVM Extender, IPKVM-500-ED is designed to distribute, control and access video with data (USB, RS-232, DIO and audio) anywhere over the standard IP Network.

The transmitter, IPKVM-500-E (Encoder) connected to a HDMI source, encodes the video with data and transmits it over Ethernet. The receiver, IPKVM-500-D (Decoder) connected to a display, receives the encoded signal over network and decodes it to regenerates the video and data for users.

The provided PC program makes the transmitters and receivers units in the network can be automatically or manually detected and configured to individual IP address and helps the any of receivers can be connected simultaneously to any transmitter within the network to create a virtual crosspoint matrix system of KVM as well as audio and video only system widely used in Pro-AV installation.

Key Features

· Extends HDMI/DVI, USB, RS-232, Audio, DIO over network
· Supports resolution up to 4K (3840x2160 at 30Hz) or full HD 1080p at 60Hz
· Any of transmitters in the network can be accessed by any receiver via provided PC program
· Supports Multi-cast 1 x N (up to 200 receivers)
· HDMI Loop out port on transmitter for local display
· Offers EDID read and write function
· Local, remote and console control switch on transmitter
· Fast switching time and Low video latency
· 1 x USB ports for local Keyboard / Mouse (transmitter) and 2 x USB ports for remote Keyboard / Mouse (Receiver)
· Easy to use OSD GUI program and PC program
· 1U rack (OPSCR-1U) mountable (a quarter width of 19")
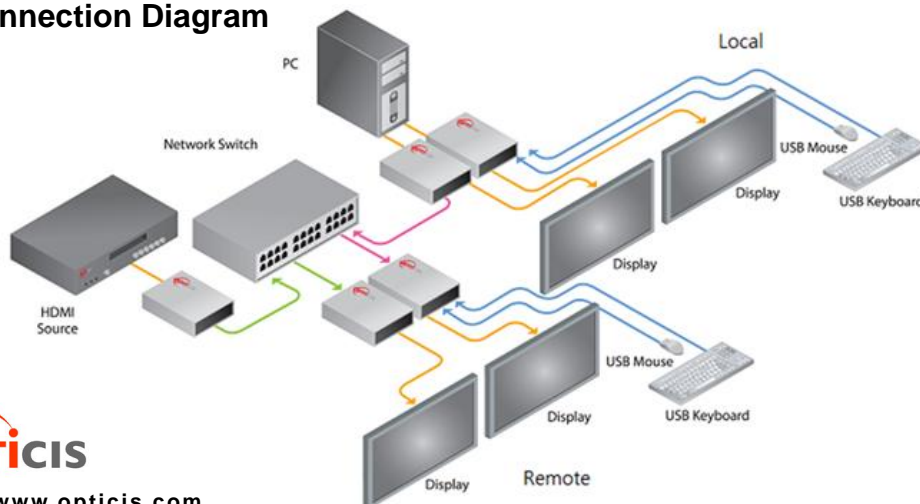· Mounting bracket (OPSCB) complying with VESA 75, 100

Applications

· Remote control system
· Control room
· Home A/V
· Digital signage
· Medical imaging

Specifications

Item	Description	
Network	100/1000 Base-T Ethernet: TCP/IP based wired network with CAT5e/ CAT6 Cables	
Resolution	Up to 3840x2160@30Hz or 1080p@60Hz	
Video Interface Standard	HDMI 1.4 and DVI1.0	
HDCP	HDCP 1.4 and 2.2	
Multicast streaming	1 to N (up to 200 RXs)	
Video latency	< 1 frame	
TX Video Interface	Input: 1 HDMI/DVI Input Output: 1 HDMI/DVI Output (Loop-Through)	
RX Video Interface	Output: 1 HDMI/DVI Output	
Keyboard/Mouse (TX)	1 x mini USB B type to PC	1 x USB A type (for Local HID Keyboard/Mouse)
Keyboard /Mouse (RX)	2 x USB A type (for Remote HID Keyboard/Mouse)	
LAN Port	RJ-45 (TX/RX 1 port)	
Audio Input (TX)	HDMI Audio, Analog Line-in & Line-out	
Audio Output (RX)	HDMI Audio, Analog Line-Out (Dual output)	
RS- 232 Port (optional)	3 Pin Terminal Block for Knob & alarm interface	
3 Stage Slide Switch(TX)	Local/Remote/Console for Control Authority	
Digital I/O Port (optional)	3 Pin Terminal block for Control Authority (Externally)	
External Console Switch (TX, Optional)	Terminal Block for Console Switch or Console Indicator	
Reset Switch	SW reset & Factory reset	
Configuration access	OSD GUI via Mouse/Keyboard for Connection & Status monitoring PC Program (Remote Manager) for device setting, mode setting & etc	
EDID	Built-in EDID & EDID Read/Write	
Dimension	TX: 112 x 28 x 104mm (WHD), RX: 112 x 28 x 104mm (WHD)	
Power Consumption (TBD)	TX < 5W	RX < 5W
Certification	FCC, CE	

Connection Diagram

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