



- HDBaseT 2 technology
- HDMI 2.0 4K@60Hz
- 4:4:4, 18G, HDR10, Dolby Vision
- HDCP 2.2/1.4 compliant
- Looping HDMI input
- EDID copy local/remote

- 100m CAT 6/6A STP/FTP
- 150m Long Reach mode option
- HDMI resolutions 4K, 2K &1080p
- Full duplex RS232 pass through
- Bi-directional IR pass through
- CEC compliant

- Local USB connection for K/M
- Dual USB port on receiver
- Integral mounting brackets
- Secure DC connection
- POC (remote powering TX or RX)
- Slim profile 24mm

Distribute high resolution 4K UHD HDMI video together with USB 2.0, IR, RS232 and audio over a single CAT 6 cable up to 100m

The **4K-985-USB** is a flexible and cost effective KVM extender for HDMI, USB 2.0, bi-directional IR, full duplex RS232 together with Power Over Cable (POC). Consisting of a transmitter/receiver pair, both units are compact and come with mounting brackets. By incorporating the full HDBaseT2 technology 4K UHD HDMI signals can be transmitted up to 100m.

The **4K-985-USB** is a HDBaseT KVM extender pair capable of distributing HDMI, HDR10 signals up to 4K UHD resolutions to 100m of Cat 5e-6 cable. By implementing the complete **5-Play** of the HDBaseT2 specification the extender pairs also provides the pass through of wide band bidirectional InfraRed signals, full duplex RS232 up to 115Kbaud and stereo audio. USB 2.0 extension is achieved by harnessing the internal 100BaseT Ethernet link within the HDBaseT protocol.

A looping HDMI input together with a USB hub on the transmitter **4K-TX985-USB** unit allow for a local PC to be connected. EDID can be read locally or from the remote display through the Cat 6A cable selectable. An extended option available on the HDBaseT chip set allows for 150m transmission for HDMI resolutions up to 1080p.

Each unit is powered via a 24V PSU which can also power the other remote device through the same cable

The 4Konnect range is from a family of digital extenders & matrices using standard CAT 6-8 STP cable to transmit HD signals over long distances





TECHNICAL SPECIFICATION

Video - Digital

Connectors HDMI (Type A) input/output

Signal type HDMI - TMDS

Standards HDMI 2.0. HDCP 2.2/1.4

Maximum data rate 4.5Gbps per colour

Maximum pixel clock 340MHz

Resolution range - DTV Max 4096x2160 @60Hz 36 bit colour depth
Resolution range - PC Max 1920x1200 @60Hz 24 bit colour depth

Frame rate 24, 25, 30, 50 & 60 Hz

Gain O dB

Formats RGB and YCrCb Colour space 4:4:4, 4:2:2 & 4:2:0

Clock jitter <0.15T bit

Rise time <0.3T bit (20-80%)
Fall time <0.3T bit (20-80%)
Maximum transmission delay 5ns (+/- 1ns)

Signal strength

TMDS +/- 0.4V pk-pk

TMDS signal level 2.9V – 3.3V

Impedance 50R Maximum DC offset 15mV

Maximum input cable length 15m 24 AWG Maximum output cable length 15m 24 AWG

Audio - Digital

Standards Embedded within the HDMI signal, SPDIF

Maximum audio channels 8

Maximum sample rate per channel 192 kHz Sample size 16-24 bits

Audio output (RX) Analogue stereo & SPDIF
Analogue audio connector 3.5mm mini-jack socket

SPDIF connector RCA phono

Power

DC Voltage External 24V PSU

DC connector 2.1mm jack with screw fitting

AC Voltage (External Supply) 100-230 VAC AC frequency (External Supply) 50/60 Hz

Power consumption 14W (max)/1.2W (standby)

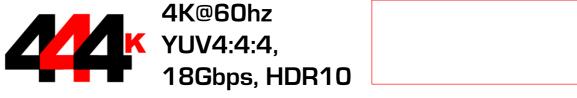
Operating temperature 0-40 degrees C Storage temperature -20-60 degrees C

Relative humidity 20-90%

Dimensions (each unit) 172x114x24mm
Dimensions with brackets (each unit) 190x114x24mm

Product weight 0.5Kg

MTBF 30,000 hours



TECHNICAL SPECIFICATION

Passthrough - USB

Connectors USB (Type B) input/(Type A) output

Signal type **USB** USB 2.0. Standards Maximum data rate 480 Mbit/s

Passthrough - RS232

3pin Phoenix Connector Signal type Full duplex +/-5V Signal level Baud rate 115200

Data bits 8 Stop bits 1 Parity None

Pinout 1-TX, 2-OV, 3-RX

Passthrough - IR

Connector 3.5mm mini-jack socket Signal type Full duplex (via 2 connections)

20-60KHz Signal bandwidth

Cat cable connectivity

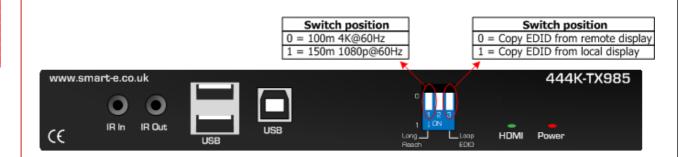
Number of cables 1 x Cat 6/6A screened twisted pair cables 1 x female screened RJ45 connectors per unit Connectors

Termination standard TIA/EIA T568B

Solid conductor, 24 AWG or better Cable requirements

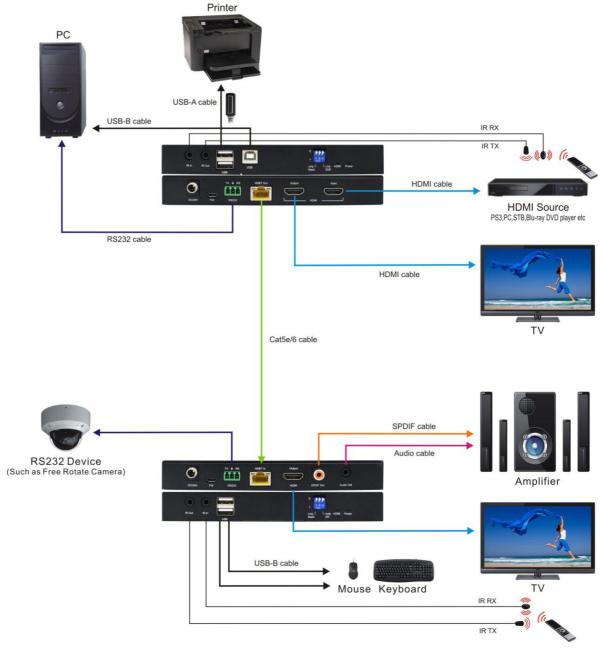
Cable recommendations 400 MHz bandwidth STP (shielded twisted pair) 100m shielded twisted pair CAT 6 or CAT 6A Transmission distance

TX PANEL DRAWING





APPLICATION DRAWING



RX PANEL DRAWINGS

