4Konnect 4K-TX940

Compact splitter unit capable of one HDMI source to 4 displays - via Cat6 cable – up to 100m

4K-TX940

HDCP 2.2

The Smart-e **4K-TX940** is a 1 in and 4 out HDBaseT splitter with IR pass-through capable of transmitting 4K UHD signal over 100m of structured cabling (using the appropriate receiver)

Transmit a single high resolution 4K UHD HDMI signal together with bi-directional IR over a single 100m CAT6 cable to 4 displays

The **4K-TX940** is a self contained HDBaseT splitter capable of transmitting HDMI signals up to 4K UHD resolutions over 100m of Cat 6 cable.

A single HDMI input can be connected to the rear of the unit where it gets split internally and then fed to 4 separate HDBaseT outputs. Each receiver (4K-RX940) decodes the HDBaseT protocol back to HDMI and Infrared. Power is provided from the transmitter through the same Cat cable so there is no need for bulky PSUs at the display end. A secure lockable DC connector on the splitter provides a reliable power connection.

Each HDBaseT connection also allows for Infrared signals to be received back from the receiver enabling remote control of the source device.

Fully HDCP 2.2 compliant this **4K-TX940** compact unit is ideal for digital signage use in Education, Entertainment and Retail Market.

The Smart-e 4K-TX940 features

- **Ultra HD 2K and 4K, 1080p resolutions**
- 1 – 4 HDBaseT splitter
- 100m Cat6 extension—HDBT
- **4K@60Hz colour space 4:2:0 - 70m**
- HDMI V1.4
- **Looping HDMI input**
- Bi-directional Infrared pass-through
- Wide band IR 38-56 KHz
- Dolby TrueHD, DTS-HD Master Audio
- HDMI, DVI-D & DisplayPort formats
- Total 10.2 Gbits/s data rate
- **HDCP 2.2 compliant**
- Supports 1920x1200 @ 60 Hz
- High ground loop immunity
- Remote powers the receivers (POC)
- Lockable DC connector
- **EDID management**
- Ethernet pass-through (output 1)

The 4Konnect range from Smart-e is a family of digital extenders and matrices using standard CAT 6-8 STP cable to transmit 4K resolution signals over long distances

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Specification

Video

Signal Types	HDMI, DVI, DisplayPort Multimode
Formats	HDMI 1.4 w/Deep Color 3D, 4K, 2K
Content Protection	HDCP V2.2
Connector	HDMI Type A Female
Cable Types	CAT 5e, CAT 6/6e, CAT 7, STP, FTP
TV resolutions PC resolutions	480, 576, 720, 1080 p & i 640x480 through to 1920x1200

Audio

Types	Embedded audio in HDMI
Digital Formats	Dolby Digital® Plus Dolby® TrueHD DTS-HD High Res DTS-HD Master Audio™, up to 8chPCM
Digital Connector	HDMI

CAT 6 signals

Pair 1	HDbaseT pair 1
Pair 2	HDbaseT pair 2
Pair 3	HDbaseT pair 3
Pair 4	HDbaseT pair 4

Power

Voltage	12Vdc
Connector	3.5mm jack socket
Max. current	500mA
Frequency	DC

Dimensions

Height	33mm (without feet)
Width	305mm
Depth	160mm
Weight	2Kg

Control

IR signal	38-56kHz
IR connector	3.5mm lockable jack socket
RS232	N/A
CEC	Yes
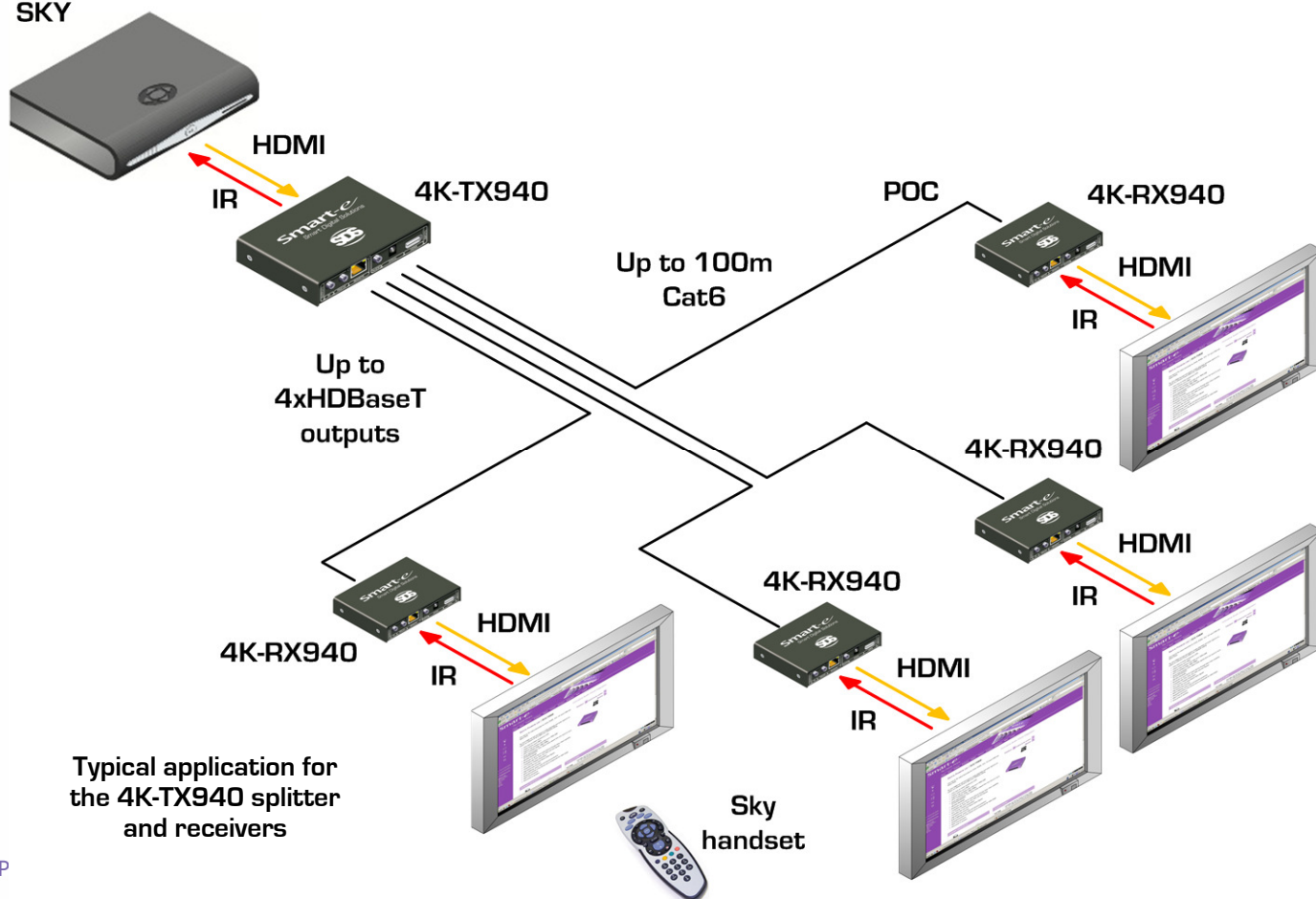
Typical application for
the 4K-TX940 splitter
and receivers

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4Konnect 4K-TX940

Front panel details

LED	Function
Loop Out	Active HDMI output connected
1	HDBaseT receiver connected
2	HDBaseT receiver connected
3	HDBaseT receiver connected
4	HDBaseT receiver connected

Switch position		Signal type	
1	2	Video	Audio
0	0	1080p @60Hz	Stereo audio
0	1	4K @60Hz 4:2:0	Dolby 5.1
1	0	1080p @24Hz	Dolby 5.1
1	1	4K @30Hz	Stereo audio

Rear panel connections
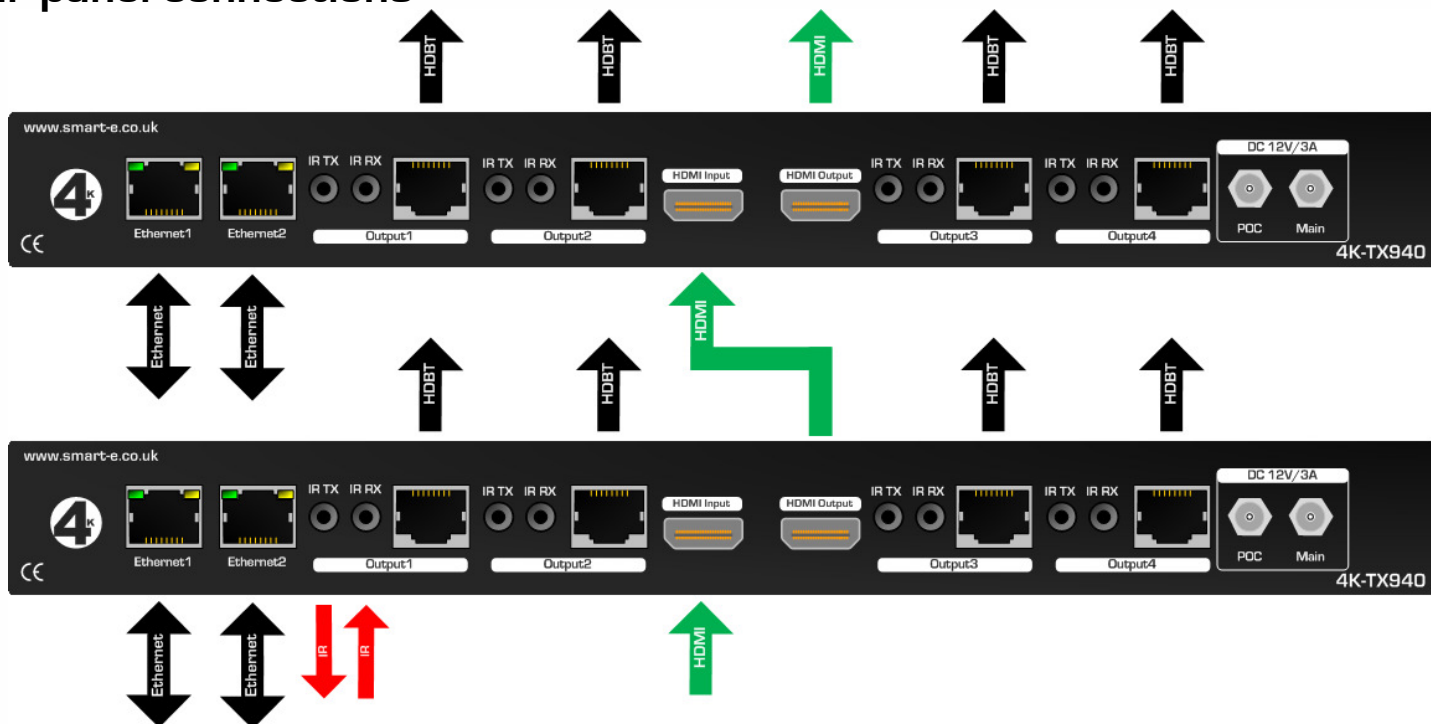
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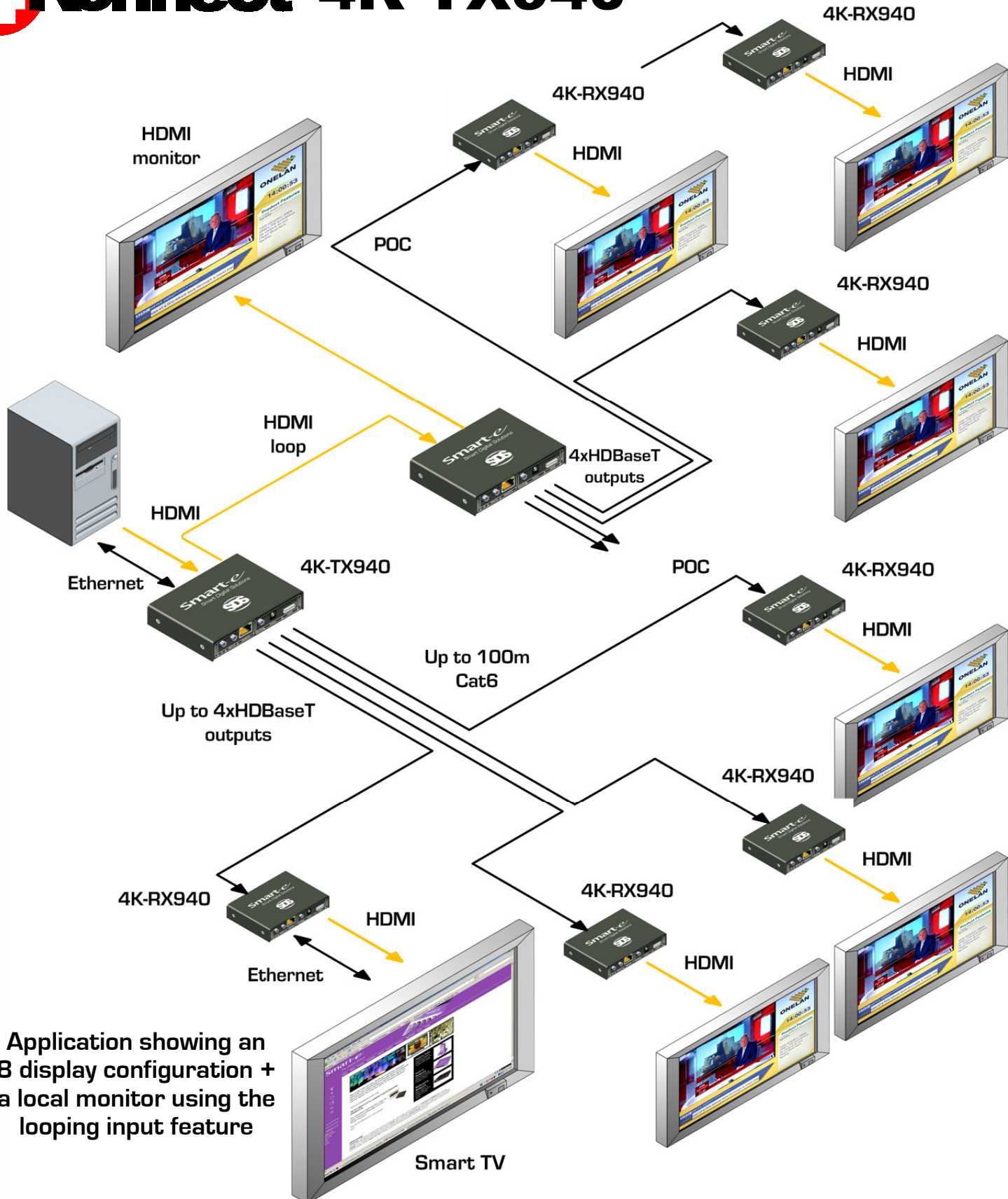
Application showing an 8 display configuration + a local monitor using the looping input feature

Labels in diagram: 4K-RX940, HDMI, POC, HDMI monitor, HDMI loop, Ethernet, 4K-TX940, 4xHDBaseT outputs, Up to 4xHDBaseT outputs, Up to 100m Cat6, Smart TV

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Smart Digital Solutions
4K-RX940

The 4K-RX940 is the HDbaseT 100m receiver unit for the 4K-TX940 series of HDBaseT splitters. The receivers converts the Cat 5e-8 signals back to HDMI, IR, RS232 and Ethernet. Remote power is provided by the splitter so no bulky external PSU is required.

The 4K-RX940 has holes conveniently placed on 2 adjacent sides allowing you to fix down you receiver wherever you need.

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Video

Signal Types	HDMI, DVI, DisplayPort Multimode
Formats	HDMI w/Deep Color 3D, 4K, 2K
Content Protection	HDCP V2.2 transparent
Connector	HDMI Type A Female
Cable Types	CAT 5e, CAT 6/6e, CAT 7, STP, FTP
TV resolutions PC resolutions	480, 576, 720, 1080 p & I, 4K, 2K 640x480 through to 1920x1200

Audio

Types	Embedded audio in HDMI
Digital Formats	Dolby Digital® Plus Dolby® TrueHD DTS-HD High Res DTS-HD Master Audio™, up to 8chPCM
Digital Connector	HDMI

Dimensions

Height	25mm
Width	100mm
Depth	100mm
Weight	0.5Kg

Power

Voltage	24Vdc
Connector	2.5mm DC locking
Max. current	100mA
Power	6Watts

Control

Ethernet	100BaseT
Ethernet connector	RJ45
DDC/EDID/CEC	Transparent
DDC/EDID connector	HDMI

Control

IR signal	38-56kHz
IR connector	3.5mm jack socket
RS232	Pass through to 115Kbaud
RS232 connector	3 pin screw lock

4K-TX940 Receiver (4K-RX940)

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