



## Flexible and comprehensive wall plate solution for interactive panels using Cat 6-8 STP/FTP cable



- Supports USB V2.0
- Uses easy to install, inexpensive CAT cable
- Outputs reach up to 30m
- Support HDMI up to 1.65 Gbps
- HDCP/EDID/DDC transparent link
- HDMI resolutions 1080p @60Hz, 3D
- Compatible with interactive panels
- RGBHV resolutions up to UXGA
- 12Mbps full speed
- 3 x CAT 6-8 STP/FTP cables
- Supplies remote power to wall plate
- Button control & auto sense
- Compact receiver units
- Stereo audio
- Plug and play

### Distribute high resolution HDMI and RGBHV signals together with audio and USB 2.0 over 3 x CAT 6-8 screened twisted pair cables

The **SDS-1001-H** is a versatile unit designed to extend video and control signals from a PC to an interactive panel located up to 30m away. Interactive education systems are the future of classrooms and will replace existing projectors, projection screens and interactive whiteboards. They have higher specification features and are providing great opportunities for collaboration in a variety of teaching functions.

The **SDS-1001-H** uses standard CAT 6-8 STP/FTP cable which is flexible, narrow in diameter and low cost. The cables can fit into small trunking and can be terminated easily with standard RJ45 connectors. The system can transmit a mix of signal types simultaneously, consistent with installing an Interactive Touch Screen, plasma, LCD or projector in Boardrooms, lecture halls and classrooms. The system requires 3 x CAT 6-8 STP/FTP cables and can extend the signals up to a distance of 30m.

The **SDS-1001-H** transmits HDMI signals up to 1080p @60Hz, computer resolutions up to UXGA (1600x1200), stereo audio and has USB V2.0 connectivity. Selection of the signal type can be via the Auto sense feature or button control on the wall plate.

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

DESIGN



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ORIGINATE


**SPECIFICATION - GENERAL**
**Video - Digital**

Standards	DVI 1.0, HDMI 1.2. HDCP 1.2
Maximum data rate	1..65Gbps per colour
Maximum pixel clock	165MHz
Resolution range - DTV	480i, 480p, 720p, 1080i, 1080p
Resolution range - PC	VGA, SVGA, XGA, SXGA, UXGA
Frame rate	24, 25, 30, 50 & 60 Hz
Colour depth	8 bits per colour
Formats	RGB and YCrCb
Colour space	4:4:4 & 4:2:2

**Video - Analogue**

Standards	VESA
Bandwidth	400 MHz
Resolution range - DTV	480i, 480p, 720p, 1080i, 1080p
Resolution range - PC	VGA, SVGA, XGA, SXGA, UXGA
Frame rate	24, 25, 30, 50 & 60 Hz
Resolution range	VGA, SVGA, XGA, SXGA, UXGA
Format	RGBHV and YPrPb

**Audio - Digital**

Standards	Embedded within the HDMI signal
Maximum audio channels	8
Maximum sample rate per channel	192 kHz
Sample size	16-24 bits

**Audio - Analogue**

Standards	Stereo - unbalanced
Bandwidth	20 - 20 kHz

**USB**

Standards	USB V2.0
Maximum signalling rate	12 Mbit/s Full speed

**Power**

DC Voltage	12V floating PSU
AC Voltage	100-230 VAC
AC frequency	50/60 Hz
Current (excluding external USB device)	500mA

**Cat cable connectivity**

Number of cables	3 x Cat 6/6A screened twisted pair cables
Connectors	3 x female screened RJ45 connectors per unit
Termination standard	TIA/EIA T568B
Cable requirements	Solid conductor, 24 AWG or better
Cable recommendations	400 MHz bandwidth STP (shielded twisted pair)
Transmission distance	30m using shielded twisted pair CAT 6 or CAT 6A

specifications are subject to change without notice





**SPECIFICATION - UNITS**

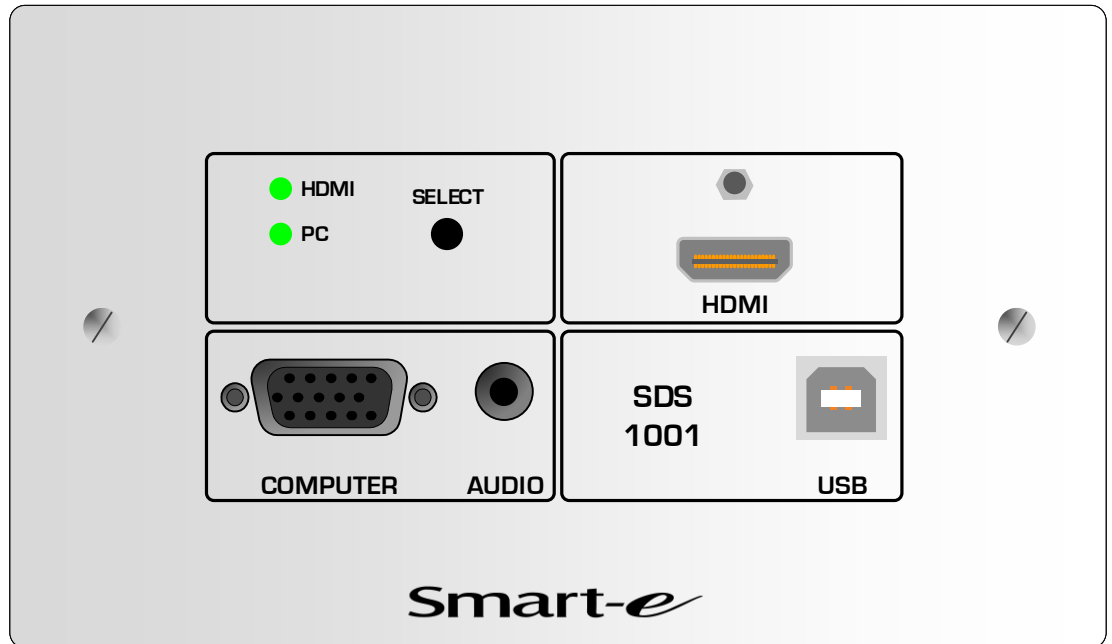
**Transmitter**

Input connector

Digital video	HDMI
Embedded audio	HDMI
Analogue video	Sub miniature high density D9 socket
Analogue audio	3.5mm jack socket
USB	Standard B connector
Cat. cable	RJ45 screened connectors

**Physical**

Dimensions	145 x 85 x 20mm (UK double gang wall plate)
Weight	200g
Power	3 Watts



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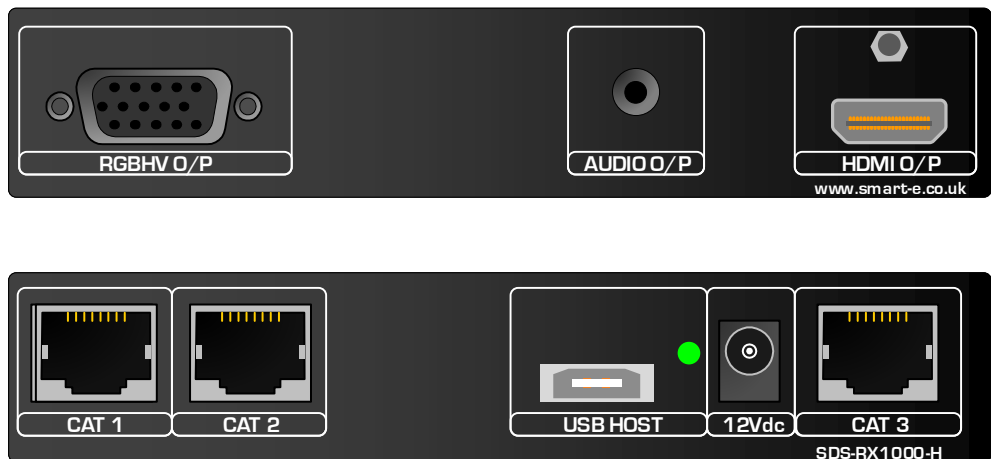
**Receiver**

Output connector

Digital video	HDMI
Embedded audio	HDMI
Analogue video	Sub miniature high density D9 socket
Analogue audio	3.5mm jack socket
USB	Standard A connector
Cat cable	RJ45 screened connectors

**Physical**

Dimensions	150 x 150 x 25mm
Weight	250g
Power	3 Watts
Connector	2.1mm DC socket



DESIGN



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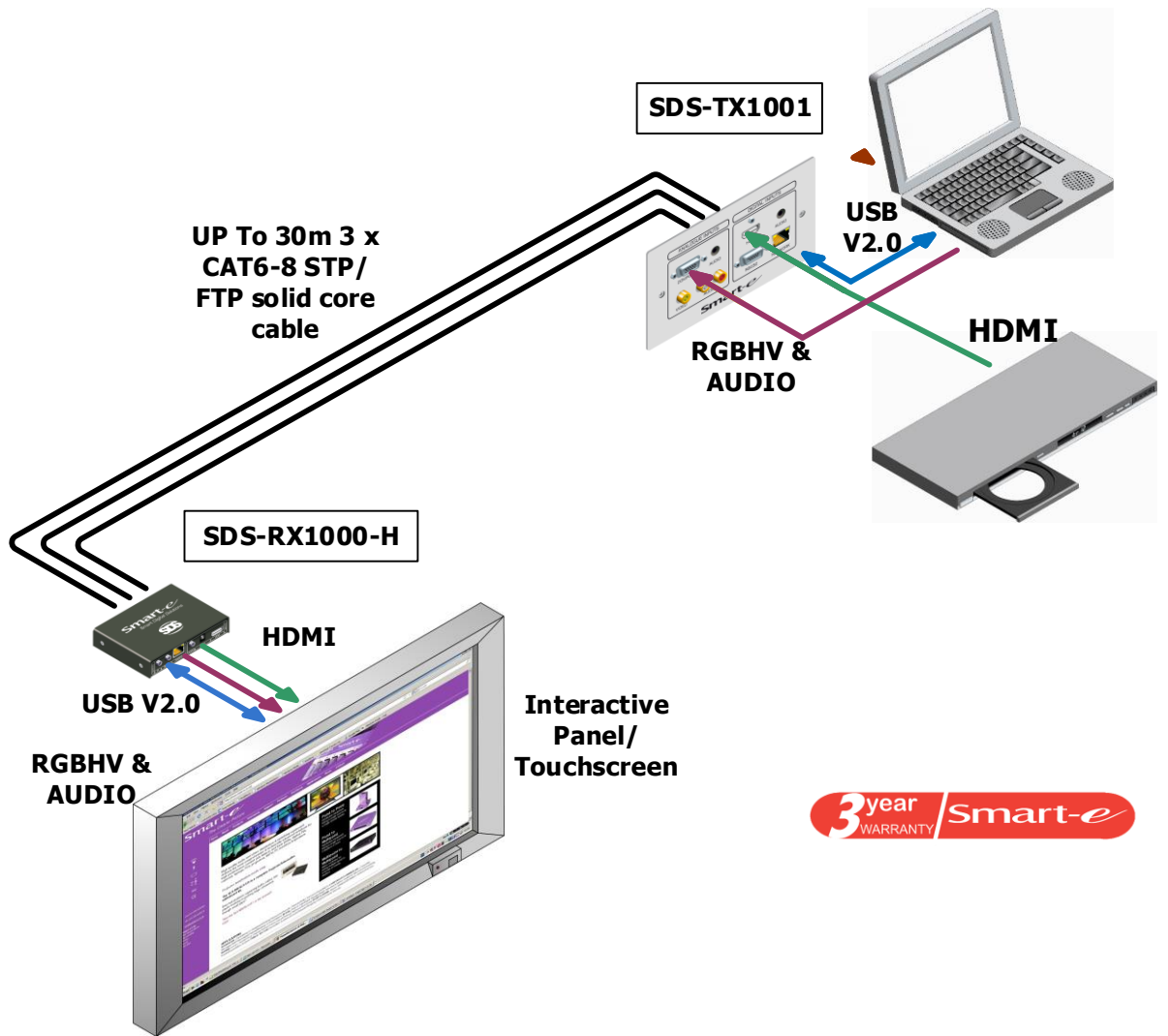


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APPLICATION DRAWING



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DESIGN



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