

Comprehensive professional HDMI/USB-C Wall plate extender with 70m CAT 6 distribution for Commercial, Education and Residential use



- Double gang Wall plate transmitter
- HDBaseT technology
- HDMI 2.0 4K@60Hz, 4:4:4, 18Gbps
- HDR 10, HDR10+, Dolby Vision, HLG
- HDCP 2.2/1.3 compliant
- Local input on receiver
- Auto/manual switching
- Audio output on RX
- Cream/Black colours available
- USB-C DisplayPort input
- USB-C charging point
- USB 2.0 extension
- 70m CAT 6/6A STP cable
- HDMI resolutions 4K, 2K & 1080p
- CEC compliant
- Integral mounting brackets
- Secure DC connection
- POC (remote powering wall plate)

Distribute high resolution 18Gbps UHD HDMI video and USB over a single CAT 6 screened twisted pair cable up to 70m

The **SDSC-2001** is a flexible and cost effective wall plate transmitter and compact receiver solution for extending 4K HDMI resolution video, DisplayPort and USB signals together with POC (remote power over cable). The pair of units are supplied as a convenient UK size double gang transmitter wall/floor plate (**SDSC-TX2001**) together with its complementary compact receiver.

The **SDSC-TX2001** transmitter wall plate is designed to accept the connection of two separate devices. One device can connect video via HDMI up to 18Gbps with a separate USB 2.0 connection for control. The other device can connect via a single USB-C connection for both DisplayPort up to 5.2Gbps and USB 2.0 within the same connector. There is also an additional USB-C connector to enable a compatible device to be charged. Selection between the devices can be achieved by either the toggle button on the panel or the auto feature which means the last connected device wins.

The **SDSC-RX2000** receiver unit connects to the wall plate via a single Cat 6/6a cable at a distance of up to 70m. The receiver present the video out on a single HDMI connector together with an analogue stereo audio output, de-embedded from the HDMI signal. There is also a HDMI input which allows a local PC to be connected and switched through to the main output when there is no signal from the wall plate. A dual pair of USB B connectors provide the means to connect peripherals to the wall plate connected computer.

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DESIGN



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TECHNICAL SPECIFICATION**Video – HDMI**

Connectors	HDMI (Type A)
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	0 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

Video – USB-C

Connectors	USB-C
Signal type	DisplayPort
Standards	DP 1.2a
Maximum data rate	5.2 Gbps

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 – Analogue RX

Standards	Stereo - unbalanced
Bandwidth	20 - 20 kHz
Connector	3pin Phoenix

Power & Environment

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	6W (max)/1.2W (standby)
Operating temperature	0-40 degrees C
Storage temperature	-20-60 degrees C
Relative humidity	20-90%
MTBF	30,000 hours

specifications are subject to change without notice

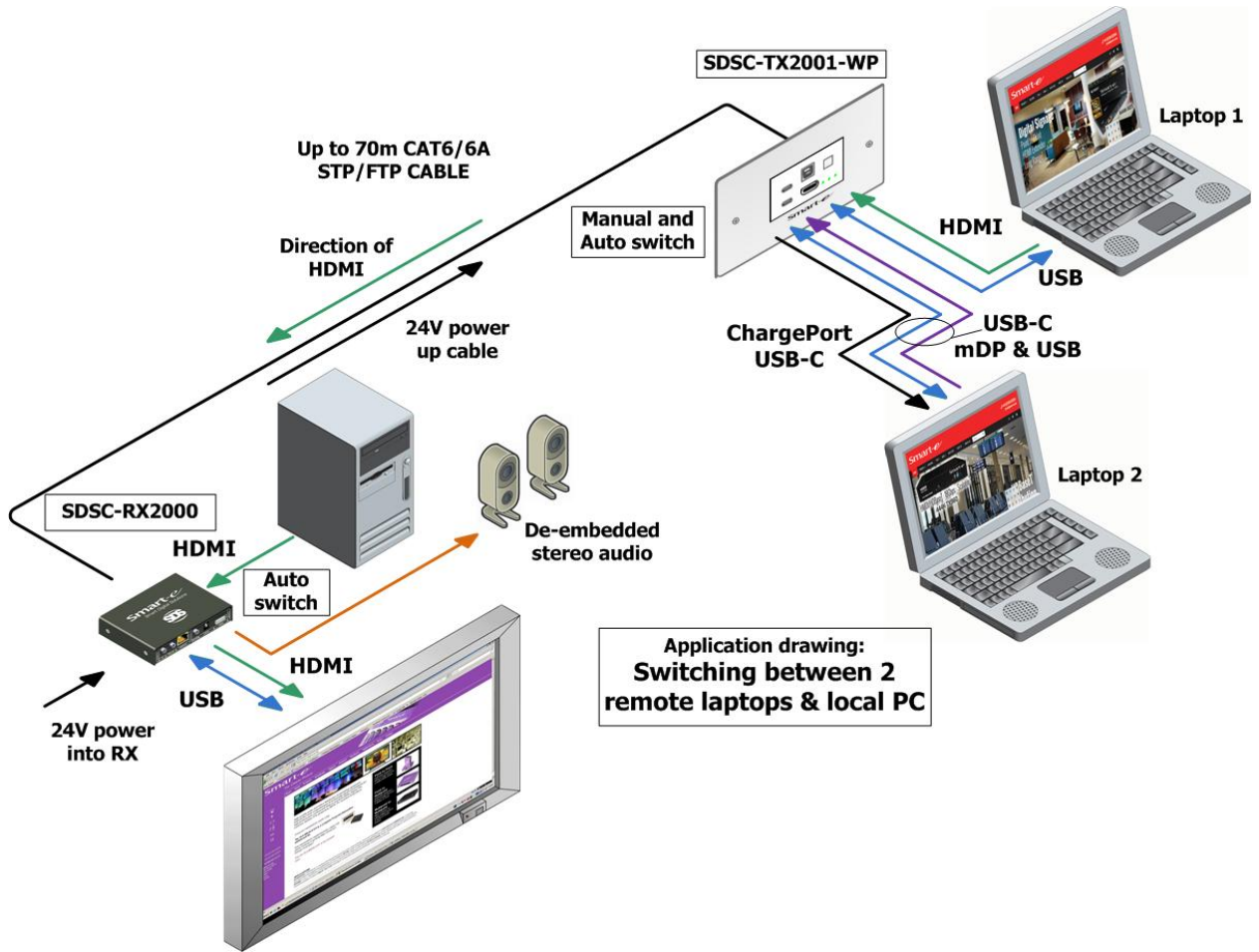


TECHNICAL SPECIFICATION

Cat cable connectivity

Number of cables	1 x Cat 6/6A screened twisted pair cables
Connectors	1 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	70m shielded twisted pair STP CAT 6 or CAT 6A

APPLICATION DRAWING



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SPECIFICATION - UNITS

Transmitter

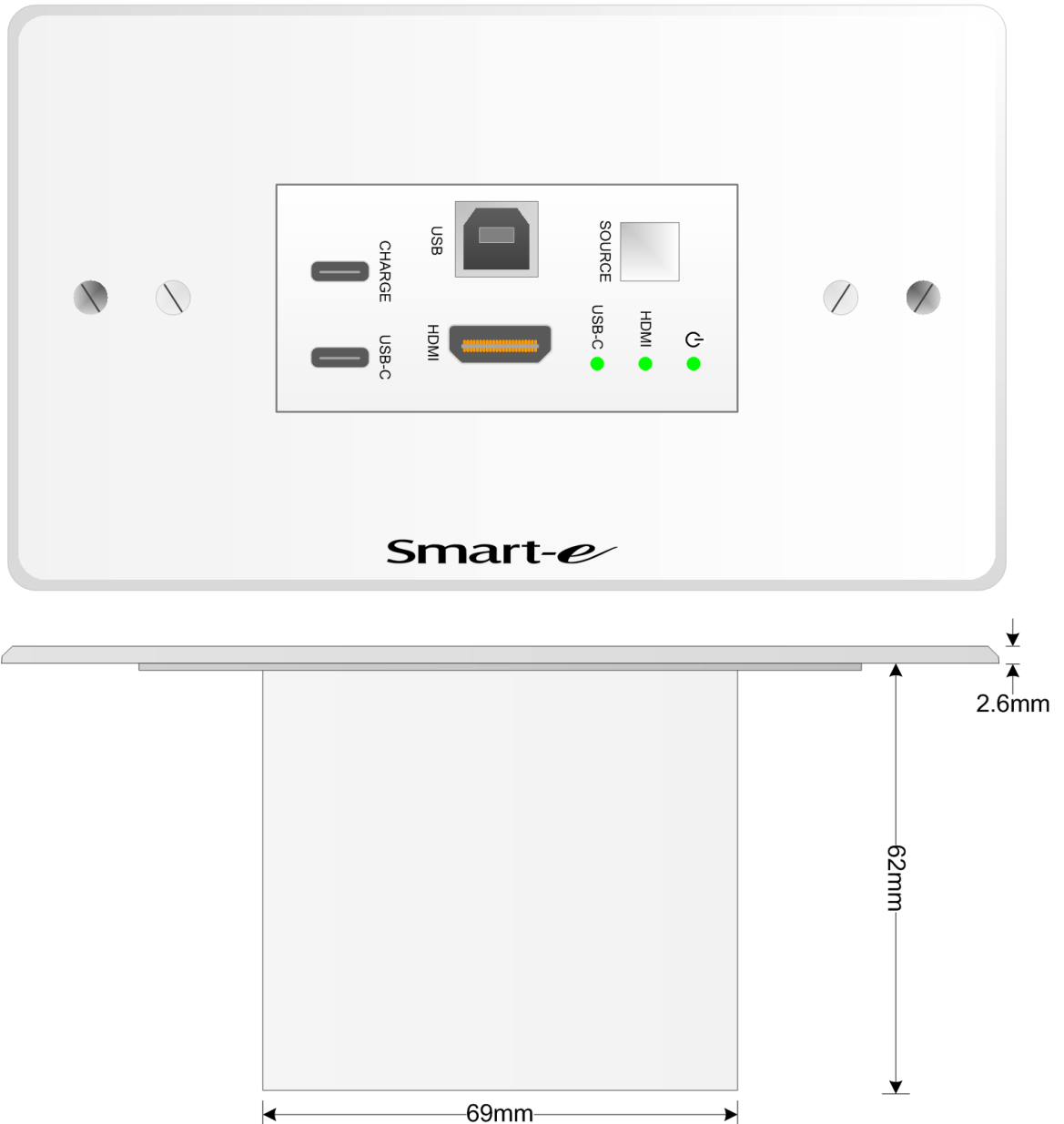
Input connector

Digital video	HDMI
Embedded audio	HDMI/USB-C
USB 2.0	USB type A
DisplayPort	USB-C
5V charge	USB-C
Cat cable	RJ45 screened connector

Physical

Dimensions	145 x 85 x 65mm (UK double gang wall plate)
Weight	200g
Power	6 Watts

SDSC-TX2001 PANEL DRAWING



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SPECIFICATION - UNITS

Receiver

Output connector

Digital video	HDMI
Embedded audio	HDMI
USB 2.0	USB type B x 2
Analogue video	3Pin Phoenix

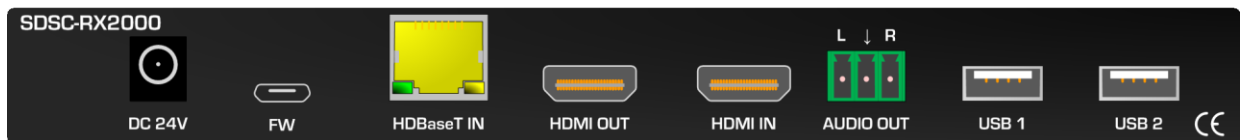
Input connector

Digital video	HDMI
Cat cable	RJ45 screened connector

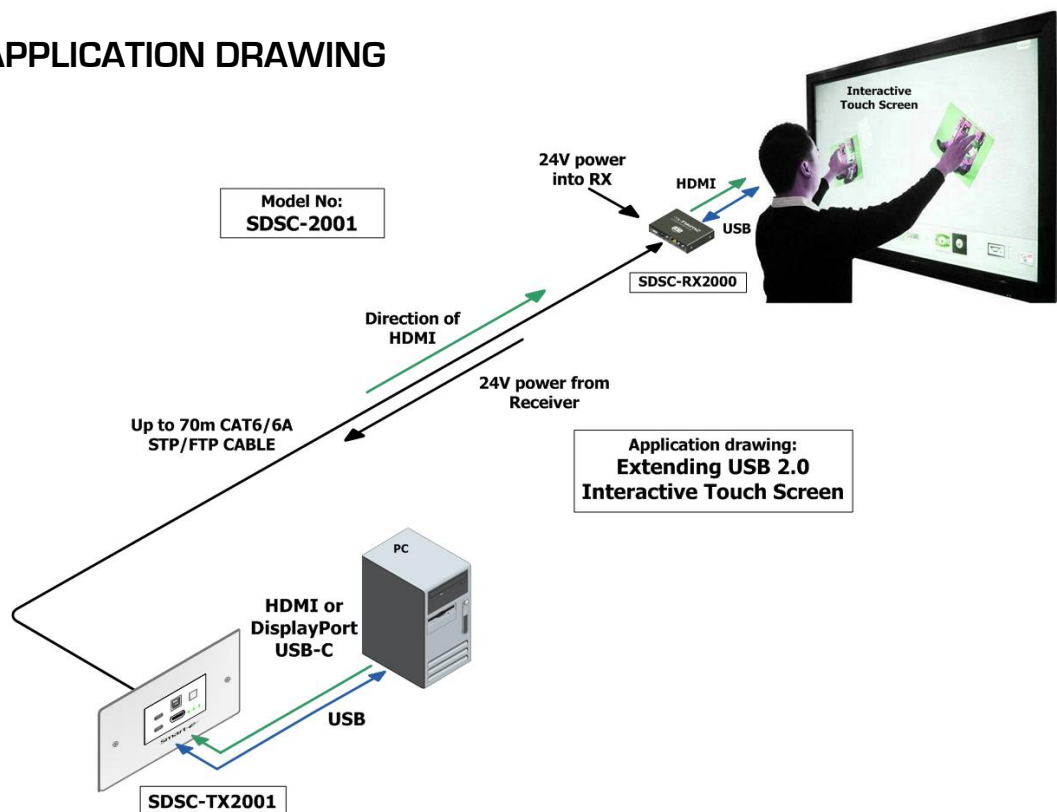
Physical

Dimensions	200x92x22mm
Dimensions with brackets	225x92x2mm
Product weight	0.5Kg
Power	15 Watts
Connector	2.1mm DC socket - locking

SDSC-RX2000 PANEL DRAWING



APPLICATION DRAWING



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