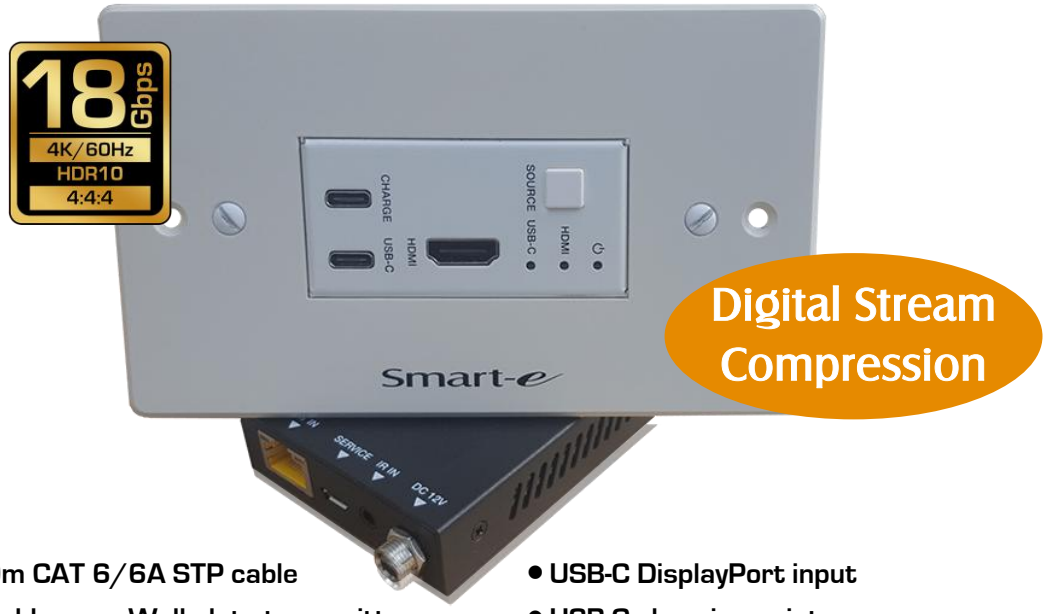
Data sheet

SDSC

4:4:4
18 Gbps
4K@60hz

Product: SDSC-1050
HDBaseT Wall Plate

Comprehensive professional HDMI/USB-C Wall plate extender with 50m CAT 6 distribution for Commercial, Education and Residential use



- 50m CAT 6/6A STP cable
- Double gang Wall plate transmitter
- HDMI 2.0 4K@60Hz, 4:4:4, 18Gbps
- HDR 10, HDR10+, Dolby Vision, HLG
- HDCP 2.2/1.3 compliant
- Auto/manual switching
- Cream/Black colours available
- USB-C DisplayPort input
- USB-C charging point
- 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 over a single CAT 6 screened twisted pair cable up to 50m

The **SDSC-1050** is a flexible and cost effective wall plate transmitter and compact receiver solution for extending 4K HDMI resolution video or DisplayPort 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—TX1050)** together with its complementary compact receiver (**SDSC-RX1050).**

The **SDSC-TX1050** transmitter wall plate is designed to accept the connection of two separate devices. One device can connect video via HDMI up to 18Gbps whilst the other device can connect via DisplayPort through the USB-C connector up to 5.2Gbps. 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 win. There is also an additional USB-C connector to enable a compatible device to be charged.

The **SDSC-RX1050** receiver unit connects to the wall plate via a single Cat 6/6a cable at a distance of up to 50m. The receiver present the video out on a single HDMI connector and obtains its power through the Cat cable from the transmitter.

Owing to it compact size and low cost the SDSC-1050 is ideal for Schools and Further Education applications but can also be used for any meeting/board/huddle room requirements.

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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

Power & Environment

DC Voltage	External 12V 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

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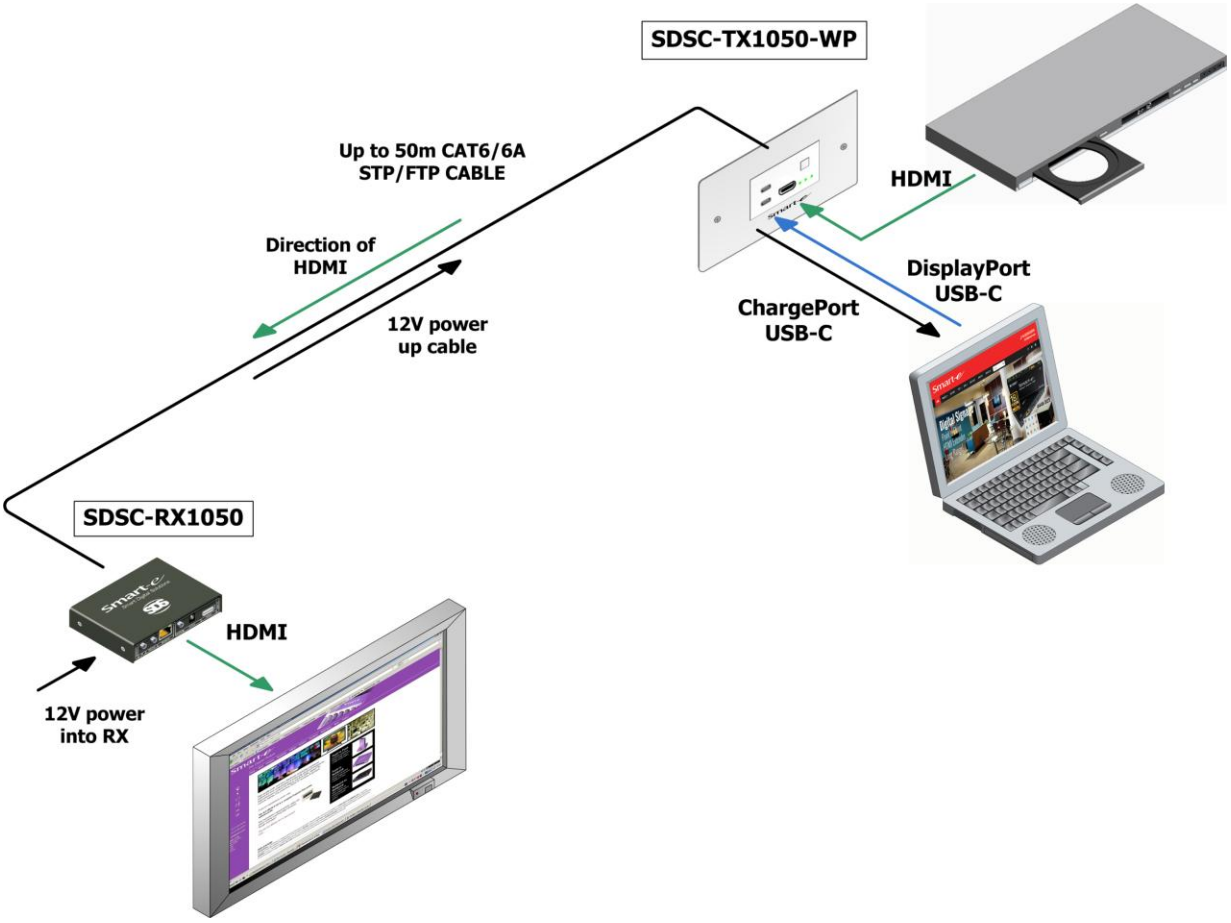
TECHNICAL SPECIFICATION

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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Product: SDSC-1050 HDBaseT Wall Plate

SPECIFICATION - UNITS

Transmitter

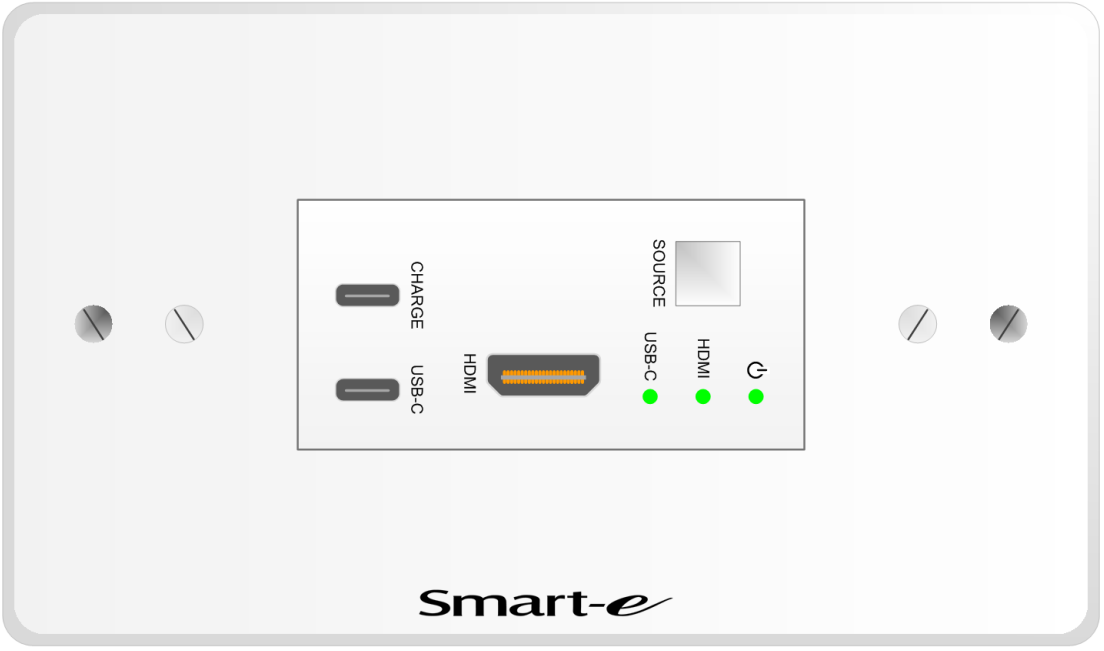
Input connector

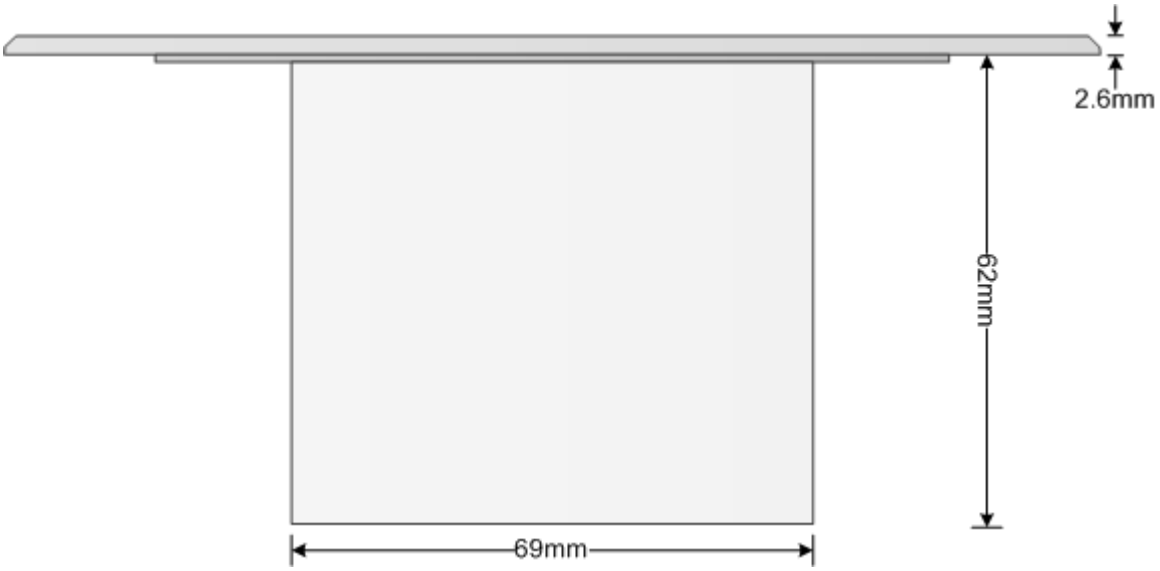
Digital video	HDMI
Embedded audio	HDMI/USB-C
USB 2.0	USB type A
DisplayPort	USB-C
5V charge	USB-C
Cat cable	RJ45 screened connector

Physical

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

SDSC-TX1050 PANEL DRAWING





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SPECIFICATION - UNITS

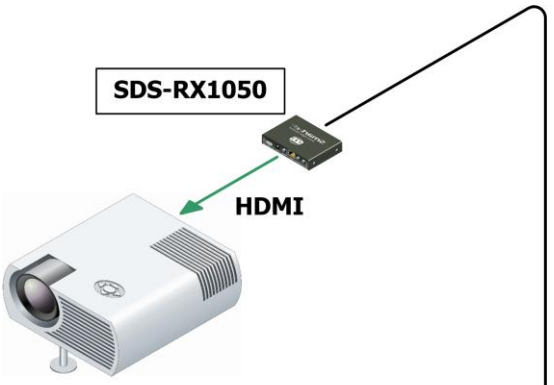
Receiver

Output connector	
Digital video	HDMI
Embedded audio	HDMI
USB 2.0	USB type B x 2
Analogue video	3Pin Phoenix
Input connector	
Cat cable	RJ45 screened connector

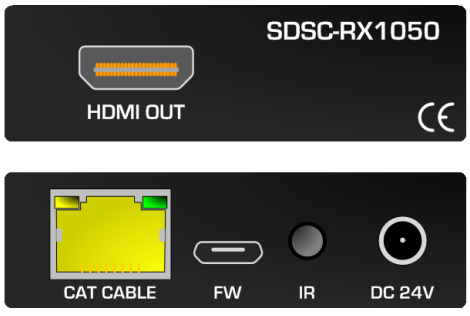
Physical

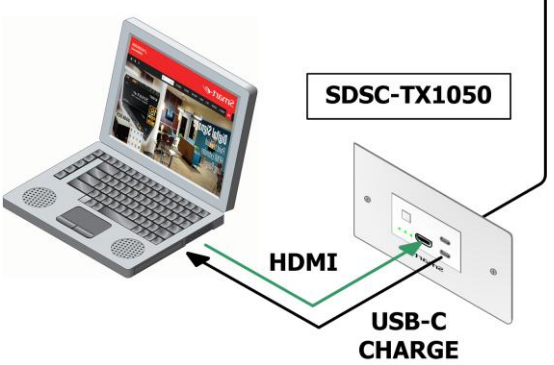
Dimensions	200x92x22mm
Dimensions with brackets	225x92x2mm
Product weight	0.5Kg
Power	15 Watts
Connector	2.1mm DC socket - locking

APPLICATION DRAWING



SDSC-RX1050 PANEL DRAWING





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