

**Comprehensive solution for distributing 18Gbps,
444K HDMI, IR & RS232 signals over 50m of
Cat 6/6A for up to 4 displays or more**



- HDMI 2.0 4K@60Hz, 4:4:4, 18Gbps
- HDR 10, HDR10+, Dolby Vision, HLG
- HDCP 2.2/1.3 compliant
- 1 - 4 HDBaseT splitter
- 60m Cat6 extension
- Looping HDMI input
- Dolby TrueHD, DTS-HD Master Audio
- Local audio output
- Remote powers the receivers (POC)
- Lockable DC connector
- EDID management
- IR passthrough

**Transmit a single high resolution UHD HDMI signal together
with IR over a single 50m CAT6/6A cable to 4 displays**

The Smart Digital Solutions **SDSC-TX7114** is a 1 in and 4 out Cat 6 splitter capable of transmitting 18Gbps 1080p/4K UHD signal over 50m of structured cabling to 4 remote displays. Additional features include Infrared pass-through together with local audio output. A looping HDMI input also allows multiple units to be cascaded together for installations larger than 4 displays. Extension of 18Gbps video is possible by the use of visually lossless compression, Digital Stream compression (DSC). DSC is an international VESA standard providing a low latency, low complexity codec ideal for a 2:1 compression.

The **SDSC-TX7114** has a single HDMI input which can be connected at the rear of the unit where it gets split internally and then fed to 4 separate Cat 6 outputs. Each receiver (**SDSC-RX1050**) decodes the Cat 6 protocol back to HDMI and IR. 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. A local audio output is also available on the transmitter.

A looping HDMI input allows multiple units to be cascaded together, providing image transmission in larger installations. The maximum number of daisy-chained units is 5 allowing up to 20 displays to be connected to the same source.

Fully HDCP 2.2 compliant this **SDSC-TX7114** compact unit is ideal for digital signage use in Education, Entertainment and Retail Market.

TECHNICAL SPECIFICATION

Video – Digital

Connectors	2 x 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	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

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

Standards	Stereo - unbalanced
Bandwidth	20 - 20 kHz
Connector	3.5mm stereo jack socket

Power

DC Voltage	External 12V PSUs
DC connector	2.1mm jack with screw fitting
AC Voltage (External Supply)	100-230 VAC
AC frequency (External Supply)	50/60 Hz
Power consumption	35W
Operating temperature	0-40 degrees C
Storage temperature	-20-60 degrees C
Relative humidity	20-90%
Dimensions	210 x 100 x 25mm
Product weight	0.5Kg
MTBF	30,000 hours

specifications are subject to change without notice

smart-e

DESIGN

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INNOVATE

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ORIGINATE

TECHNICAL SPECIFICATION

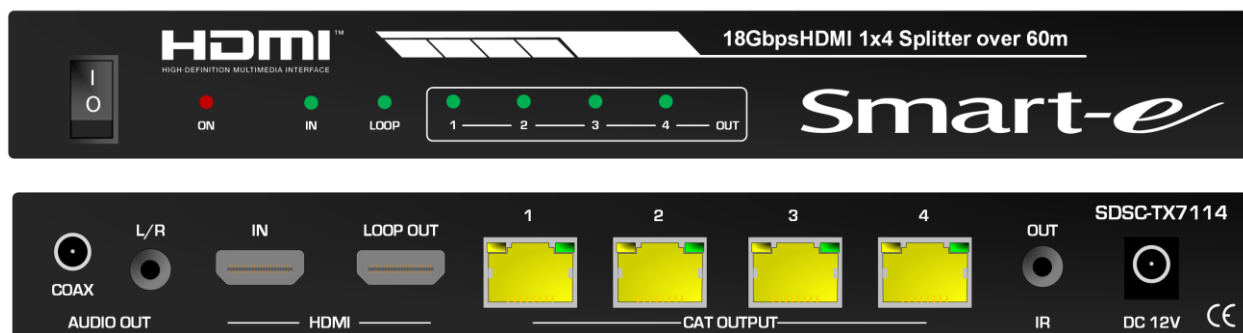
Control - IR

Connector	3.5mm mini-jack socket
Signal type	Full duplex (via 2 connections)
Signal bandwidth	20-60KHz

Cat cable connectivity

Number of cables	4 x Cat 6/6A screened twisted pair cables
Connectors	4 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	120 4K@60Hz 150m 1080p@60Hz Shielded twisted pair CAT 6 or CAT 6A

PANEL DRAWINGS



Receiver

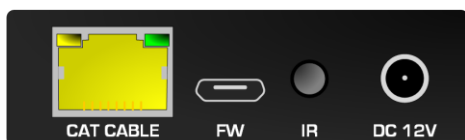
Output connector	
Digital video	HDMI
Embedded audio	HDMI
Input connector	
Cat cable	RJ45 screened connector

Physical

Dimensions	88x61x18mm
Dimensions with brackets	88x95x18mm
Product weight	0.16Kg
Power	4 Watts
Connector	2.1mm DC socket - locking



SDSC-RX1050 PANEL DRAWING

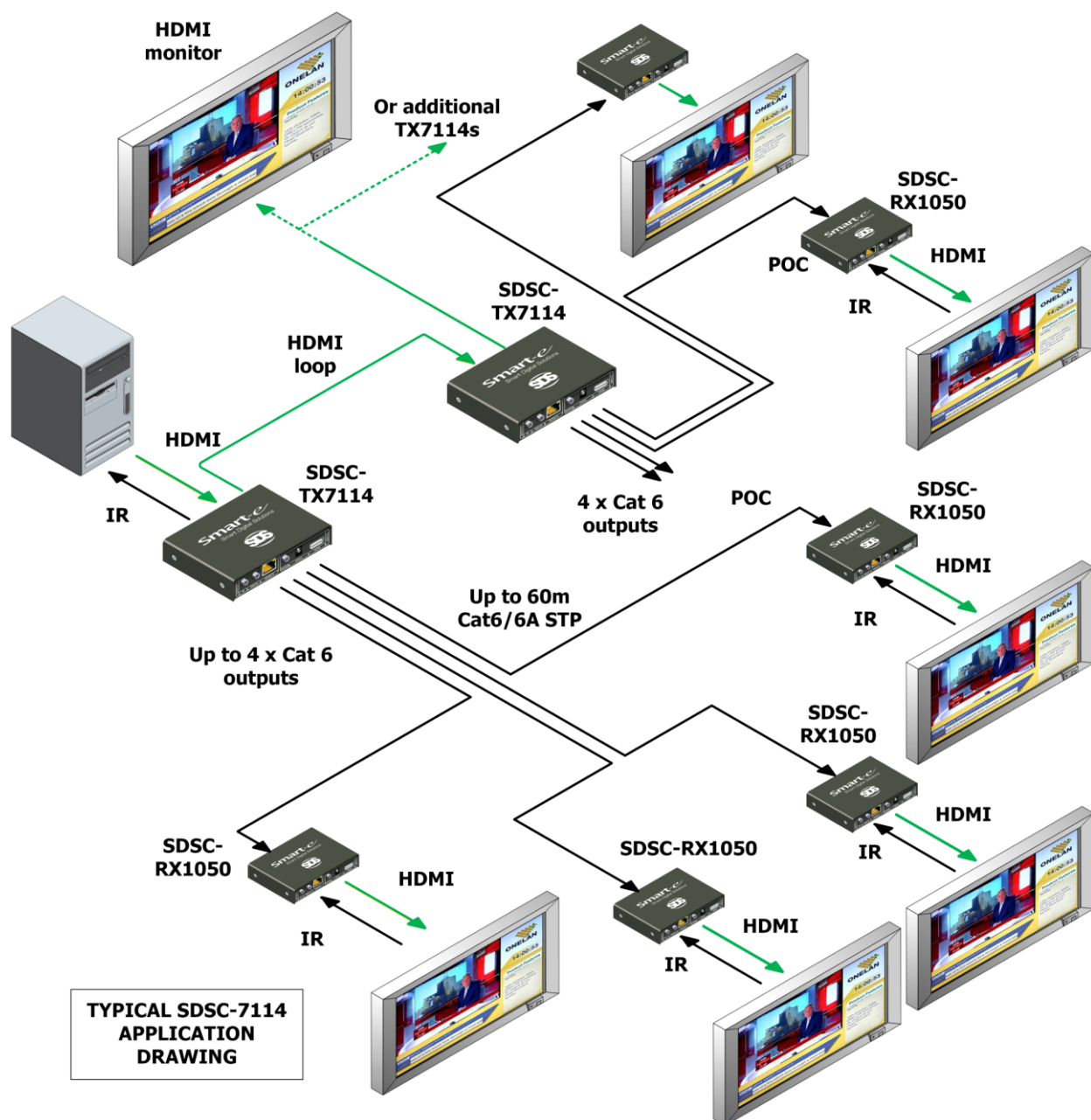


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APPLICATION DRAWING



Application showing an 6 display
configuration + a local monitor
using the looping input feature

3 year
WARRANTY Smart-e

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DESIGN

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