Product:SDSC-RX925 Cat 6/6A extender

Flexible cost-effective long range professional HDMI receiver using CAT 6/6A distribution system



- HDBaseT technology
- HDMI 2.0 4K@60Hz
- 4:4:4, 18G, HDR10, Dolby Vision
- HDCP 2.2/1.3 compliant
- Looping inputs for transmitter
- Full duplex RS232 pass through
- Bi-directional IR pass through

- 150m @1080p, 120m @4K
- Single CAT 6/6A STP/FTP
- CEC compliant
- Analogue audio out on receiver
- Secure DC connection
- POC (remote powering receivers)
- Slim profile 18mm

Receive high resolution UHD HDMI video together with IR and RS232 over a single CAT 6 screened twisted pair cable up to 150m

The **SDSC-RX925** is a flexible and cost effective HDBaseT receiver solution for extending HDMI, bidirectional IR, full duplex RS232 together with POC (remote power over cable). The unit is very compact and comes with the IR accessories. By incorporating an extended HDBaseT technology, 4K UHD HDMI signals can be transmitted up to 120m and 1080p @60Hz video up to 150m using CAT 6/6A STP/FTP.

The **SDSC-RX925** is a HDBaseT receiver unit capable of accepting UHD HDMI signals up to 4K UHD resolutions. Implementing a special extended version of the HDBaseT specification, the extender also provides the pass through of wide band bi-directional InfraRed signals and full duplex RS232 up to 115Kbaud. Whilst POC power (24V) can be sent by either the TX or RX through the Cat 6/6A cable to provide power to the remote end. All that is required is a single Cat 6/6A cable connection to provide all these features.

The SDSC-RX925 receiver has an analogue stereo audio output replicating the de-embedded audio from the HDMI signal.

The unit is very compact having a height of only 18mm helping to hide the units in confined spaces. Each box also has integral mounting feet for desktop use and the ability to fix right-angled brackets allowing ease of installation.

ORIGINATE



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TECHNICAL SPECIFICATION

Video - Digital

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 O dB

Formats RGB and YCrCb Colour space 4:4:4, 4:2:2 & 4:2:0

Clock jitter 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 0.3T bit [20-80%]

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 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 9W (max)/1.2W (standby)

Operating temperature O-40 degrees C
Storage temperature -20-60 degrees C

Relative humidity 20-90%

Dimensions (each unit) 140x65x18mm

Product weight 0.16Kg
MTBF 30,000 hours

ORIGINATE

DESIGN



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TECHNICAL SPECIFICATION

Control - RS232

Connector
Signal type
Signal level
Baud rate
Data bits
Stop bits
Parity
Signal type
Full duplex
+/- 5V
115200
115200
None

Pinout 1-RX, 2-0V, 3-TX

Control - IR

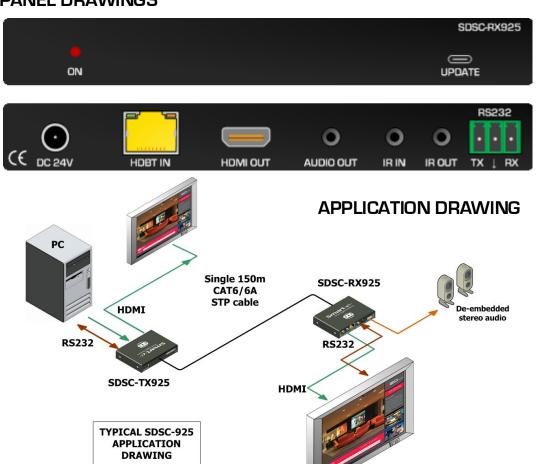
Connector 3.5mm mini-jack socket
Signal type Full duplex (via 2 connections)
Signal bandwidth 20-60KHz

Cat cable connectivity

Number of cables
Connectors
Termination standard
Cable requirements
Cable recommendations
Transmission distance

1 x Cat 6/6A screened twisted pair cables 1 x female screened RJ45 connectors per unit TIA/EIA T568B Solid conductor, 24 AWG or better 400 MHz bandwidth STP (shielded twisted pair) 120/150m shielded twisted pair CAT 6 or CAT 6A – resolution dependent

PANEL DRAWINGS



DESIGN

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