

HDMI Extender over Fibre 4K/60Hz, 4:4:4



Introduction

The SC05.9000F extends the distance between the HDMI source and display using a single or multi mode fibre up to 10km. Uncompressed 4K/60Hz video is transmitted without delay or signal degradation. This extender supports full duplex RS232, embedded/de-embedded audio and bi-directional infrared. The units are only 18mm in height making them a perfect solution for installing behind any display.

The extender is supplied as a pair and includes fibre modules, RS232 Phoenix terminals and PSU's.

Features

- HDMI 2.0b, HDCP 2.2 and DVI 1.0 compliant
- Uncompressed 4K@60Hz 4:4:4 up to 18Gbps video bandwidth
- HDR, HDR10, HDR10+, Dolby Vision and HLG pass through
- LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24,
- DTS High Res, DTS-HD Master Audio, DSD pass through
- Transmission distance up to 10km over single-mode, 300m over multi-mode
- Transmitter has HDMI loop through for a local display
- Bi-directional IR and Full Duplex RS-232
- Analogue audio embedding and de-embedding

Specifications

Technical		
HDMI Compliance	HDMI 2.0b	
HDCP Compliance	HDCP 2.2	
Video Bandwidth	18Gbps	
Video Resolution	Up to 4K@60Hz 4:4:4	
HDBaseT Bandwidth	16Gbps on main and 2Gbps on return link	
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG	
Colour Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0	
Colour Depth	8/10/12-bit	
Audio Formats	LPCM2/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS HD Master Audio, DSD	
L/R Audio Formats	PCM 2.0	
IR Level	12V p-p	
IR Bandwidth	20K - 60KHz	
RS232	4800 to 115200bps	
Transmission Distance	10km over Single Mode and 300m over Multi Mode	
ESD Protection	Human Body Example - +/-8kV (air gap discharge) & +/-4kV (contact discharge)	
Connections		
Transmitter	Inputs	1 x HDMI (Type-A, 19-Pin Female)
		1 x Stereo Audio (3.5mm Jack Socket)
		1 x IR Input (3.5mm Jack Socket)
		1 x RS232 (3-Pin Phoenix Terminal)
		1 x Service Port (mini USB)
	Outputs	1 x HDMI (Type-A, 19-Pin Female)
Receiver	Inputs	1 x Optical Fibre (LC Female)
		1 x IR Input (3.5mm Jack Socket)
		1 x Service Port (mini USB)
	Outputs	1 x HDMI (Type-A, 19-Pin Female)
		1 x RS232 (3-Pin Phoenix Terminal)
		1 x IR Output (3.5mm Jack Socket)
1 x Stereo Audio (3.5mm Jack Socket)		
Mechanical		
Housing	Metal Enclosure	
Colour	Black	
Dimensions	Transmitter	(W) 134 x (D) 68 x (H) 18mm
	Receiver	(W) 134 x (D) 68 x (H) 18mm
Weight	Transmitter 280g and Receiver 278g	
Power	Input	AC 100 - 240V 50/60Hz
	Output	DC 5V/1A
	Consumption	Transmitter 3.85W and Receiver 2.7W
Operating Temperature	0 - 40°C	
Storage Temperature	-20 - 60°C	
Relative Humidity	20 - 90% RH (no condensation)	

