



TYPE: Sepitam-1HD1U1bD-SFP-T/R

Technical Specification of Sepitam-1HD1U1bD-SFP-T/R



Description:

The **Sepitam-1HD1U1bD-T/R** optical converter is composed of transmitter and receiver. The audio, video and data output from the computer host (HD video signal source, HD DVD/DVR and other equipment) are extended to the remote user through 1 core optical fiber. Listen to the image and sound of the computer host in real time on the remote end and control the host at the transmitter.

Properties:

- ◆ Adopt high-speed FPGA, to realize full-digital, uncompressed video transmission;
- ◆ One core optical transmission LC fiber port (pluggable 3G SFP);
- ◆ Transmission distance up to 20 KM, single multi-mode compatibility;
- ◆ Support 1 channel forward 2K video transmission, support video loop-out function (support 1200P resolution);
- ◆ Support keyboard and mouse control;
- ◆ Support one channel bidirectional independent 3.5 stereo audio transmission (support audio deintercalation function);
- ◆ 1 channel bidirectional RS232 serial port data transmission;
- ◆ Support EDID manual learning;
- ◆ Automatic identification of input signals and configuration of various display modes;
- ◆ Built-in automatic equalization, clear and stable screen;
- ◆ Built-in ESD protection circuit can effectively prevent electrostatic damage, prevent lightning;
- ◆ Simple installation, plug and play, no need to set;



Applications:

LCD splicing large screen, LED splicing screen, project projection fusion project, video conference system;
Monitor testing and burn-in;

Public Video System (Certification Companies, Futures Markets, Financial Documents, etc);

High quality multimedia video conference display (Video Conference), briefing...

Municipal command building center, substation control room, steel plant control room, cement plant control room, mine control room, coal mine, cement plant, thermal power station, fine chemical control room, digital machine room management;

[±] Product parameter:

Optical Module Parameter	Fiber optic channel		1 channel
	Fiber connector		LC
	Type of fiber		Single-mode single fiber
	Band bandwidth		3G bps
	Signal standard		Serial Digital Optical Signal
	Transmitting optical power		>-8 dBm
	Receiving sensitivity		>-13 dBm
	Rate		100MHZ~3.125GHZ
	Wavelength		1550/1310 nm
Video	Video channel		One channel forward, one channel loop out
	HDMI parameter	Output input rate	SD: 270 Mbps HD: 1.485Gbps FULLHD: 4.95G/S
		Support resolution	1920*1200@60P /1920*1080@60p/60i/50p /30p/25p/24p 1280*720@60P 480i 576i
		Pixel bandwidth	165MHz
	Electrical characteristics of video	HDCP	1.2
		Data rate	Support 1920*1200P@60Hz resolution and Downward compatibility
		Signal swing	0.3 V (vpp)
		AC impedance	100 ohms
		Signal coupling mode	AC coupling
		HDMI maximum cable length	1.4B Standard HDMI <3m



USB	Version	1.1
Audio	Audio channel	One channel bidirectional
	Interface	3.5 mm Stereo Audio Socket
	Audio format	44.1K,48K,96K,176K,192K
	Signal type	Stereo Channel
Data	Data channel	One channel bidirectional
	Level type	RS232
	Rate	50~115200 Hz Downward Compatibility
	Data bit	8 bit
	Physical interface	Phoenix Terminal (3P)
Power input	DC 12V1A	
Power	Single 4W	
Working temperature	-20°C ~70°C	
Storage temperature	-40°C ~85°C	
Working humidity	0~95 per cent (no condensation)	
Storage humidity	0%~90% RH (no condensation)	
Product size	167*113*28 mm	

Equipment panel description

Transmitter:

Port description	HDMI Multi-functional Audio/Video Optical Converter - Transmitter
SFP	3G Video Fiber Optic Module
123	RS232 Serial Data
AUDIO IN	Audio Input Interface
AUDIO OUT	Audio output interface
EDID	EDID of learning monitors
LOOP	HDMI video loop out
HDMI IN	HDMI signal input interface
PC	Connect computer / NVR...Interface

**Indicator:**

FIBER	Light up: fiber signal No light: no fiber
RUN	Flashing: Equipment working properly No light: equipment not working
VIDEO	Light up: video signal No light: No video signal
POWER	Light up: power on equipment No light: No power

Receiver:

Port description	HDMI Multi-functional Audio/Video Optical Converter - Receiver
SFP	3G Video Fiber Optic Module
123	RS232 Serial Data
AUDIO IN	Audio Input Interface
AUDIO OUT	Audio output interface
LOOP	HDMI video loop out
HDMI OUT	HDMI signal output interface
KEYBOARD/MOUSE	Keyboard and mouse interface

FIBER	Light up: fiber signal No light: no fiber
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