HANUTECH

DVI fiber extender

Overview

Commercial-grade DVI extender over fiber is used to extend the transmission of audio and video signals,which is usually used when the DVI cable limit length cannot meet the transmission distance.This product transmits DVI audio and video signal to 20KM user through the fiber, up to 120KM, equipment supports TCP/IP network protocol, can realize one transmitter to multiple receiver transmission through ethernet switches,long-distance transmission while support infrared return transmission, independent audio transmission, remote control of signal source (host-KVM, TV box-IR infrared) to ensure the stability of the signal while reducing the cost for the user.the EDID built-in audio of commercial-grade DVI extender over fiber greatly improves the compatibility of the device.The equipment has a long transmission distance, low use cost, convenient installation, good compatibility, and is a stable and efficient transmission mode. Widely used in information release system, securit.

Features

1.DVI video support maximum resolution 1920*1080P@60Hz downward compatibility

2.Integrated HDCP decryption engine for receiving protected audio and video content

3.EDID automatic learning, automatically matching signal sources and display devices

4.Support independent analog of 3.5mm audio

5.Support KVM function (keyboard and mouse)

6.Support reverse IR infrared function

7.Support point to point, point to many transmission through ethernet switches (up to 255 points)

8.Support many to many signal transmission applications

9.Support for single fiber / dual fiber (optional)

10.Single mode/multi-mode compatibility, multi-mode transmission distance of 1KM, single-mode transmission distance of 20KM, can

customize up to 120km

11.Built-in ESD electrostatic protection circuit, simple to install, plug and play

12.Support mutual communication with our HDMI/VGA series

Technical Specification

Fiber index	
Wavelength	1310-1550nm
Tx power	>-8db
Rx sensitivity	>-26db
Fiber connector	SC default FC / SC (Optional)
Video index	
Video version	DVI-D (full digital)
HDCP protocol	1.2
Maximum pixel clock	148.5MHZ
Resolution	720 (1440) x 480i @ 59.94/60Hz
	720 (1440) x 576i @ 50Hz
	720 x 480p @ 59.94/60Hz
	720 x 576p @ 50Hz
	1280 x 720p @ 59.94/60Hz
	1280 x 720p @ 50Hz
	1920 x 1080i @ 59.94/60Hz
	1920 x 1080i @ 50Hz
	1920 x 1080p @ 23.98/24Hz
	1920 x 1080p @ 59.94/60Hz
	1920 x 1080p @ 50Hz
Effective cable length	Less than 10m

Physical interface	DVI-I connector
KVM(USB) index	
Version	1.1
Tx physical interface	USB female type A
Rx physical interface	USB female type B
Audio index	
Sampling frequency	32k、44.1k、48k、64k、88.2k、96k、176.4k、192kHz
Sampling depth	24bit
Dynamic bandwidth	96db
Total harmonic distortion(THD)	-88db
Signal to noise ratio（SNR）	96db
Audio input / output impedance	600Ω
Signal level	VPP 3.3V
Physical interface	3.5mm stereo audio socket
Signal type	Analog stereo channel
IR index	
Infrared interface	Standard 3.5mm interface
Infrared frequency	Standard with 20-60KHz
Signal type	Digit signal
Infrared transmission direction	Reverse transmission
Other indexes	
Operating temperature	-20°C ~70°C
Storage temperature	-40°C ~85°C
Product size	104*104*28mm
Product net weight (Pair)	0.35/kg
Product weight (including outer packaging)	0.6/kg
Product outer packaging dimensions	130*110*30mm
Power supply	5V 2A
Power dissipation	2.5W