Mini-DVI Extender

■ Introduction

DVI optical Extender adopts advanced uncompressed digital high-definition video and high-speed digital optical fiber transmission technology. It can easily transmit various resolutions of the DVI high-definition signals from computer host, high-definition video signal source, high-definition DVD/DVR and other equipment to the remote end, and solve the problems of data security and anti-magnetic interference. DVI Extender（DVI optical transmitter and receiver）includes a optical signal transmitter and a optical signal receiver. According the different models of optical DVI Extender, can be selected one optical fiber, two optical fibers or four optical fibers for transmission; It is possible to spread, distribute and share HD video in wide area.

■ Types

Model	Description	Transmission Distance	Resolution
AMS-DTR4L	4*LC Optical Fiber Port	Multimode Fiber：500M	1920*1080@60Hz
AMS-DTR2L	2*LC Optical Fiber Port	Multi-mode Fiber：500M Single-Mode Fiber：2KM	1920*1080@60Hz
AMS-DTR1L	1*LC Optical Fiber Port	Single-Mode Fiber：2KM	3840*2160@30Hz

■ Picture

AMS-DTR4L
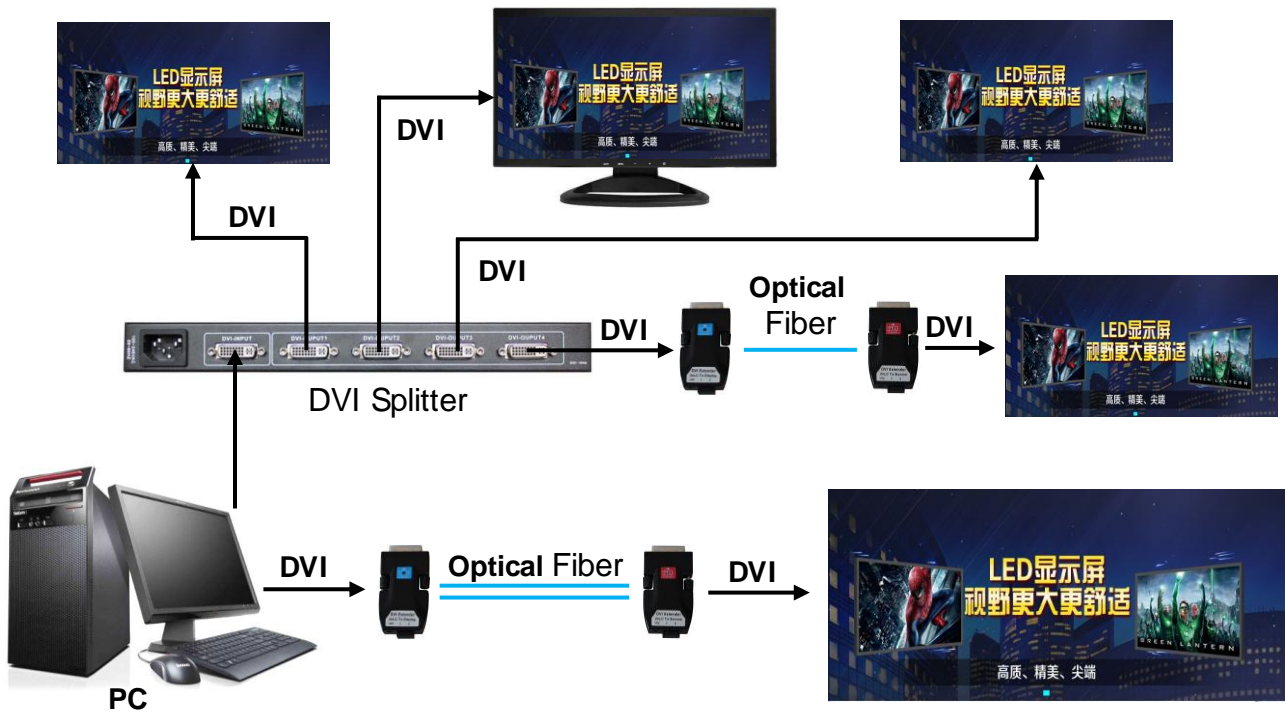
AMS-DTR2L

AMS-DTR1L

■ Application

■ Features

◆ Digital, Uncompressed High-definition Optical Fiber Transmission

◆ Support 1 Channel DVI HD Video Transmission

◆ Compatible DVI 1.0 Standard

◆ Automatically Identify & Configure Display Modes

◆ Support single link mode

◆ Maximum Support 1920x1200@60hz, Maximum Bandwidth 1.65Gbps (AMS-DTR4L)

◆ Support 8Bit、10Bit、12bit color

◆ Pixel Clock Maximum 225MHz

◆ The Built-in Automatic Equalization And Retiming Function, Ensure The Picture Clear And Stable

◆ Support EDID Display Mode To Read And Memorizing Function

◆ Gigabit Optical Fiber Transmission, Large Capacity, Easy To Upgrade

◆ Single-mode Or Multi-mode Optical Fiber Transmission

◆ Support Plug And play Function, Support Hot Swap

◆ Suitable For Industrial Environment

◆ Full Surface Mount Technology

■ Specification

DVI HD Video Interface Parameters	
Interface Standard	DVI 1.0
Physical Interface	DVI-D Socket
Interface Quantity	Transmitter port: 1 input;　Receiver: 1 output.
Resolution (Single Link)	SVGA：800x600@60Hz； WXGA：1280x800@60Hz UXGA：1600x1200@60Hz； HDTV：1080P 1920x1080@60Hz
Color Level	8/10/12 Bit
Video Pixel Clock	25-165MHZ
Video Bandwidth	1.65Gbps
Video Differential Level	800-1200mVp-p, Typical
Video Differential Impedance	100Ω
DDC Standard	DDC2/EDID 1.0/2.0
DDC Processing Mode	Transmitter Read Display Mode
Optical Interface Parameters	
Interface	4xLC <AMS-DTR4L >
	2xLC <AMS-DTR2L >
	1xLC <AMS-DTR1L >
Signal Standard	850nm, Multi-mode;　1310nm, Single-mode;
Transmitted Optical Power	-3～-6.5dbm
Receiving Sensitivity	-18dbm
Product Size	AMS-DTR4L:69mm(L)×38mm(W)×15mm(H)
	AMS-DTR2L:73mm(L)×38mm(W)×15mm(H)
	AMS-DTR2L:73mm(L)×38mm(W)×15mm(H)
Power Supply	DC 5V、2A
Operating Temperature	-10-60℃
Operating Humidity	5%-85%