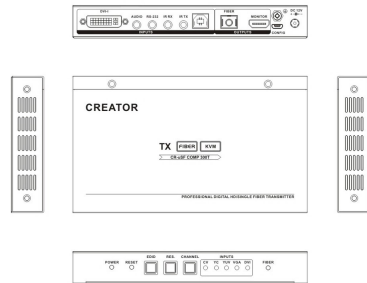


CR-uSF COMP 300T

Multi-format Video Single Core Fiber Input



CR-uSF COMP 300T



Size(mm):
180(L)×105(W)×25(H)

Overview

CR-uSF COMP 300T is a single-core multimode fiber input supporting multi-format videos. It can convert the CV, YPbPr, VGA, DVI, HDMI and Audio signals into optical fiber signal then transmit them. And it can work with matrix. It supports RS-232, IR and USB (mouse and keyboard) signals transmission.

This product is mainly used in broadcasting and television projects, multimedia meeting rooms, big display projects, TV education, command and control center and other occasions.

Feature

- Support CV, YPbPr, VGA, DVI and HDMI signals transmission with a single-core multimode fiber.
- Support HDMI monitor video output.
- Support synchronous Audio, IR and RS-232 signals transmission.
- The transmission distance can be up to 300 m.
- Support KVM function, it can transmit USB keyboard, mouse signal.

Specifications

Parameter name	CR-uSF COMP 300T
Protocol	HDMI1.3a, HDCP1.3, DVI 1.0
Pixel bandwidth	165MHz, full digital
Interface bandwidth	6.75Gbps (each color is 2.25Gbps)
Maximum support resolution	PC 1920*1080@60_24bit color depth HDTV 1920*1080@60_36bit color depth
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
Signal type	DVI 1.0/HDMI 1.3aStandard DVI D/HDMI full digital T.M.D.S signals
Connector	DVI-I
Signal strength	T.M.D.S. 3.3V pp
Mini/Max level	T.M.D.S. 2.9V/3.3V
Impedance	50 Ω
EDID	Use the system default EDID
Max DC offset error	+/-15mV
Recommended max input/output	Input less than 10 meters, in 1920x1080@60 Hz(recommended use the certified HDMI/DVI special wire, such as Molex TX wire)

Specifications

Parameter name	CR-uSF COMP 300T		
Connector	DVI-I		
Signal type	CVBS	YPbPr	VGA
Gain	0dB	0 dB	0 dB
Bandwidth	150MHz @ -3dB	350MHz @ -3dB	380 MHz
Differential phase error	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	
Differential gain error	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	
Signal strength	1 Vpp: CVBS	1 Vpp: Y of YPbPr 0.3 Vpp: PbPrCbCr of YPbPr	0.63 Vpp—0.9 Vpp
Min/Max level	Analog signal: -2V/+2V	Analog signal: -2V/+2V	RGB: -0V/1.0V HV: -0V/5.0V
Input impedance	75Ω	75Ω	75Ω
Return loss	<-30dB@5MHz	<-30dB@5MHz	<-30dB@5MHz
Connector	3.5 mm stereo audio port		
Gain	0 dB		
Frequency response	20 Hz ~ 20 kHz,		
Total harmonic distortion + noise	0.01% @ 1 kHz (At rated voltage)		
Signal to noise ratio (S/N)	>80dB at Vin=0 V		
Stereo separation	>80dB @ 1 kHz		
Common-mode rejection ratio (CMRR)	>75dB @ 20 Hz ~ 20 kHz		
Signal type	Stereo audio		
Impedance	Input > 10 kΩ Output > 50Ω		
Maximum input level	3Vpp		
Gain error	±0.1dB @20 Hz ~ 20 kHz		
Connector	Input: 3.5 mm stereo audio port output: 3.5 mm stereo audio port		
Signal type	Digital signal		
Output level type	PLL level		
wavelength	850nm		
Input level carrier frequency	38KHz		
Connector	3.5 mm stereo audio port		
Signal type	Digital signal		
level type	RS-232 level		
Signal direction	Two-way communication		
Baud rate	9600bps		
Data bit	8 bits		
Stop bit	1 bits		
Parity bit	None		
Data stream	None		
Level delay	500 ns		
Level peak	+/-15V		
Connector	Female type B		
Signal type	USB signal		
Protocol	USB1.1		

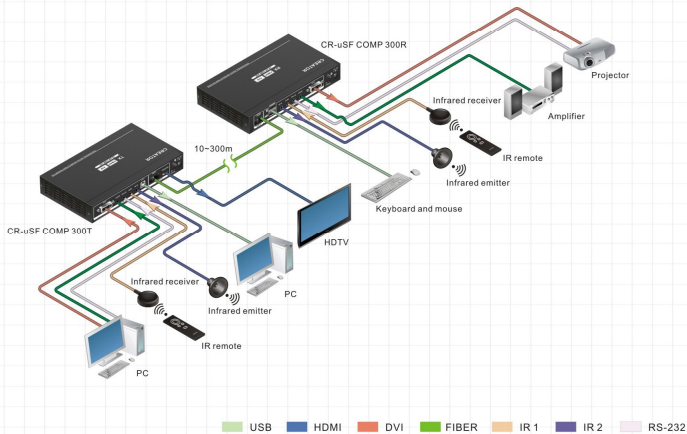
CR-uSF DVI 300T

DVI Single Core Fiber Video Input

Specifications

Parameter name	CR-uSF COMP 300T
Connector	SC connector
Fiber type	Single mode/multiple mode (optional)
Wavelength	Single mode: 1310~1620 nm/multiple mode: 850 nm (optional)
Interface bandwidth	Forward: 6.25 G bps Reverse: 3.125 G bps
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
Recommended max input/output distance	Om3 multimode fiber: < 300 m, in 1920x1080@60Hz; Single-mode fiber: 2~20 km, in 1920x1080@60Hz
Power	Power adapter, 12VDC/2A
Maximum power	MAX 5W
Temperature	Store and work temperature: -20°C ~ + 70°C
Humidity	Store and work temperature: 10% ~ 90%
Mean time of failure	30,000 hours
Quality assurance	One year free warranty

System diagram



Overview

CR-uSF DVI 300T is a single-core multimode optical fiber input which support high resolution HDMI/DVI signals. It can convert HDMI/DVI video signals into optical fiber signals, and can be used with single-core optical fiber transmission receivers or fiber optical matrix; It also support RS-232, IR passthrough and USB KVM signals.

It is widely used in panel display and large videowall display, advertising project, automatic industrial control, medical equipment, security monitoring and multi-media education and other fields.

Feature

- Support high resolution of HDMI/DVI signal transmission by single core multimode fiber.
- With HDMI-Monitor video output function.
- Support transmission of synchronous Audio signals, IR signals and RS-232 signals.
- Support refresh EDID.
- Transmission distance up to 300M.
- Support KVM function.



CR-uSF DVI 300T



Size(mm):
180(L)×105(W)×25(H)

Specifications

Parameter name	CR-uSF DVI 300T
Protocol	DVI1.0,HDMI1.3a,HDCP1.3
Pixel bandwidth	165MHz, full digital
Interface bandwidth	6.75Gbps, full digital(each color is 2.25Gbps)
Maximum support resolution	PC: 1920x1200@60_24bit deep color; HDTV: 1920x1080P@60_36bit deep color
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
Signal type	DVI1.0/DVI-D in the HDMI1.3a specification/ HDMI full digital T.M.D.S signal
Connector	DVI-D
Signal strength	T.M.D.S. 3.3V pp
Min/Max level	T.M.D.S. 2.9V/3.3V
Impedance	50 Ω
EDID input	Optional default EDID(support terminal EDID mapping to the input)
Max DC offset error	+/-15mV
Recommended max input distance	Less than 10 meters, in the 1920x1080P@60Hz(recommended use certified HDMI/DVI special wire, such as Molex TX wire)