

# CR-uSF HD 200T

## HD/FIBER transmitter



CR-uSF HD 200T

### Product overview

CR-uSF HD 200T is a single core multi-format optical fiber transmitter supporting high resolution HDMI, DVI signals. It can convert HDMI video signal into optical signal for transmission, and can be used with single core optical fiber transmission receiver or fiber matrix; supports for RS-232 and IR pass through.

### Features

- Support single core multi-format fiber transmission of high resolution of HDMI/DVI signal.
- With HDMI-monitor video output monitor function.
- Support transmission of Audio signal, IR signal and RS-232 signal.
- Support the field refresh EDID.
- Transmission distance is up to 300M.

### Specifications

The parameter name	CR-uSF HD 200T
Supported protocols	DVI1.0,HDMI1.3a,HDCP1.3
PIXEL bandwidth	165MHz, all digital
Interface bandwidth	2.25Gbps, Full digital (a total of 6.75Gbps, each color is 2.25Gbps)
Maximum supported resolution	PC 1920x1200@60_24bit Color depth HDTV 1920x1080P@60_36bit Color depth
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
Signal type	DVI- D / HDMI full digital T.M.D.S signa in DVI 1.0 / HDMI 1.3a specification
Interface	DVI-D Interface
Signal strength	T.M.D.S. 3.3Vpp
Minimum / maximum level	T.M.D.S. 2.9V/3.3V
Input Impedance	50Ω
Input EDID	Using the default EDID, (Support terminal EDID mapping to input)
Maximum DC offset error	+/-15mV
The recommended maximum input distance	Less than 10 meters, in the 1920x1080p@60 (recommended the use of certified DVI special wire, as Molex TM wire)

### Specifications

The parameter name	CR-uSF HD 200T
Supported protocols	DVI1.0,HDMI1.3a,HDCP1.3
PIXEL bandwidth	165MHz, all digital
Interface bandwidth	2.25Gbps, Full digital (a total of 6.75Gbps, each color is 2.25Gbps)
Maximum supported resolution	PC 1920x1200@60_24bit Color depth HDTV 1920x1080P@60_36bit Color depth
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
Signal type	DVI-D/ HDMI digital T.M.D.S signal in DVI 1.0/HDMI 1.3a specification
Interface	HDMI-A Interface
Signal strength	T.M.D.S. 3.3V p-p
Minimum / maximum level	T.M.D.S. 2.9V/3.3V
Impedance	50 Ω
Input EDID	Using the default EDID, (Support terminal EDID mapping to input)
Maximum DC offset error	+/-15mV
The recommended maximum input distance	Less than 10 meters, in the 1920x1080p@60(recommended the use of certified HDMI special wire, as Molex TM wire)
Interface	3.5mm stereo audio socket
Gain	0 dB
Frequency response	20 Hz ~ 20 kHz,
Total harmonic distortion + noise	0.01% @ 1 kHz (Under rated voltage)
The 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
Impedance	Input: >10 kΩ(Balanced or unbalanced connection) Output: 50Ω(Unbalanced connection)
Maximum input level	3Vpp
Gain error	± 0.1dB @20 Hz ~ 20 kHz
Interface	Input: 3.5mm stereo audio socket Output: 3.5mm stereo audio socket
Signal type	Input: Digital Output: Digital
Output level type	PLL level
Wavelength	850nm
Carrier frequency of input level	38KHz
Interface	3.5mm stereo audio socket
Signal type	Digital
Level type	RS-232 level
Signal direction	Two-way communication
Baud rate	Min: 4800bps Max: 115200bps
Data bits	8
Stop bit	1
The correction bits	None
Flow control	None
Level delay	500 ns
Level peak	+/-15V



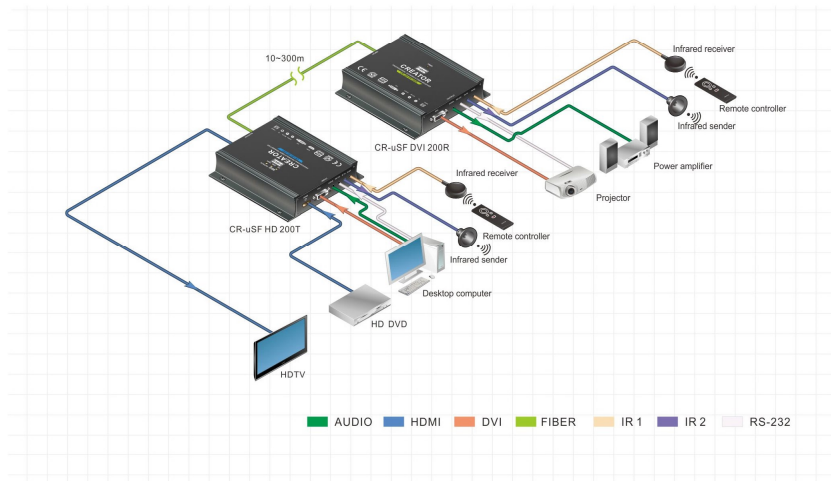
Size (mm):  
162(L)×155(W)×35(H)

# CR-uSF HDMI 200R HDMI/FIBER receiver

### Specifications

The parameter name	CR-uSF HD 200T
The fiber output interface	SC connector
Fiber type	Multimode/Single Mode (Optional)
Wavelength	Multimode 850nm/Single Mode: 1310 ~1620nm (Optional)
Interface bandwidth	Positive: 6.25Gbps, Reverse: 3.125Gbps
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
The recommended maximum input distance	Om3 multimode fiber: less than 300 meters, at 1920x1080p@60. Single-mode fiber: 2' 20km
Power supply	The power adapter, 12VDC/2A
Maximum power dissipation	MAX 5W
Temperature	Storage, use temperature: -20℃ ~+70℃
Humidity	Storage, use humidity: 10%~90%
Mean time between failures	30,000 hours
The warranty	1 year free warranty

### System connection diagram



### Product overview

CR-uSF HDMI 200R is a single core multi-format optical fiber transmitter supporting high resolution HDMI signals. It can convert optical fiber video signal into HDMI high-definition signal, and should be used with CR-uSF HD 200T or matrix; supports for RS-232 and IR pass through.

### Features

- Support single core multi-format fiber transmission of high resolution of HDMI signal.
- Support transmission of audio signal, IR signal and RS-232 signal.
- Transmission distance is up to 300M.

### Specifications

The parameter name	CR-uSF HDMI 200R
Supported protocols	DVI1.0,HDMI1.3a, HDCP1.3
PIXEL bandwidth	165MHz, all digital
Interface bandwidth	2.25Gbps, Full digital (a total of 6.75Gbps, each color is 2.25Gbps)
Maximum supported resolution	PC 1920x1200@60_24bit Color depth HDTV 1920x1080P@60_36bit Color depth
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
Signal type	DVI-D/HDMI digital T.M.D.S signal in DVI I.0/HDMI 1.3a specification
Interface	The HDMI-A interface
Signal strength	T.M.D.S. 3.3V pp
Minimum / maximum level	T.M.D.S. 2.9V/3.3V
Impedance	50 Ω
Maximum DC offset error	+/-15mV
The recommended maximum input distance	Less than 10 meters, in the 1920x1080p@60 (recommended the use of certified HDMI special wire, as Molex TM wire)
Interface	Input: 3.5mm stereo audio socket Output: 3.5mm stereo audio socket
Signal type	Input: Digital Output: Digital
Output level type	PLL level
Wavelength	850nm
Carrier frequency of input level	38KHz
Interface	3.5mm stereo audio socket
Signal type	Digital
Level type	RS-232 level
Signal direction	Two-way communication
Baud rate	Min: 4800bps Max: 115200bps
Data bits	8
Stop bit	1
The correction bits	None
Flow control	None
Level delay	500 ns
Level peak	+/-15V



CR-uSF HDMI 200R



Size (mm):  
162(L)×155(W)×35(H)