

TriF Series Fiber Optical Extender



TriF-R1S

▶ Product Description

The TriF Series Fiber Optic Extender are designed to solve engineering problems. It transmits high-definition video signals over a standard single fiber, with a transmission distance of up to 10 kilometers. This fiber optical transceiver has a single 2.5G transmission rate and supports up to 1920x1200@60Hz RGB resolution. The pass-through loop at the sender is used for local computer monitoring. The receiver reads the output in DVI-I (DVI-D and VGA) format. The LEDs on the transmitter and receiver display the status of the power, video, and optical signals. The entire system operates at 1310nm (single mode) wavelength with a link loss tolerance of 7dB.

▶ Features

- Support common resolutions: 800x600, 1024x768, 1152x864, 1280x720, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1366x768, 1400x1050, 1440x900, 1600x900, 1600x1200,
- 1920x1080, 1920x1200, automatic format detection, maximum clock frequency 170MHz
- The maximum resolution input is 1920x1200@60Hz
- Support signal status indicator display
- Support button to set horizontal position, vertical position and sampling phase
- Support 10BitA/D sampling
- Support 2.5 Gbps signal transmission rate
- Transmission distance up to 10Km

▶ Product Model

Model	Name
TriF-T1SD-B	DVI single mode single core optical transmitter
TriF-R1SI-B	DVI single mode single core optical receiver VGA single
TriF-T1SG-B	mode single core optical transceiver
TriF-R1SI-B	VGA single mode single core optical receiver



TriF-T1S

▶ Specifications

Interface Type	VGA/HDMI/DVI	
Loop Through Interface	VGA/HDMI/DVI	
Input Resolution	1920x1200@60Hz, and backward compatible	
Wavelength	1310nm	
Matched Fiber Type	9/125um SMF	
Transmission Distances	10km	
Image Processing	10BitA/D sampling support	support
	2.5 Gbps signal transmission rate	support
	Button settings support	support
Using Environment	0°C~40°C	
Size	120mm × 110mm × 45mm	
Weight	0.5kg	
Power	12V DC, 30W	



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