

1 channel Uncompressed 4K DVI Fiber Mux

Specification

Overview

4K HD DVI optical transceiver supports 4K resolution and 10G high-speed photoelectric conversion transmission. It is actually a single fiber to extend the DVI signal, speaker, microphone, RS232, etc. EDID real-time backhaul, support to transmit RS232 serial port signal, used for communication with LCD screen, camera gimbal, and can also be used as long-distance transmission of touch screen. Low energy consumption, long distance, plug and play, strong compatibility, can achieve more accurate display.

Photo



Features

- All digital, no compression, high-definition fiber transmission;
- 10G optical fiber transmission rate, truly transparent transmission without compression and delay;
- Support DVI-D video signal transmission, the highest resolution: 4096 × 2160 @ 30HZ;
- EDID can be reversed to support HDCP content protection;
- Automatically identify and configure various display modes;
- With independent analog audio or RS232 / 422/485 serial data;

- DVI interface has built-in ESD protection circuit, which can effectively prevent static electricity loss;
- On-site installation: simple and convenient, plug and play, no setting required;
- 300 meters of multimode fiber, 10 ~ 80KM long distance transmission of single mode fiber;
- The aluminum alloy oxygen pole oxidation shell is suitable for severe industrial environments such as extremely high temperature and extremely low temperature;
- Full surface mount technology and high reliability;
- No software setting required, support plug and play function, support hot swap;

Parameters

◆ Fiber

Fiber: single fiber, double fiber

Fiber interface: LC

Wavelength: 850nm / 1310nm multimode; 1310nm / 1550nm single mode

Transmission distance: 10 ~ 80Km

Typical transmit power:

Single mode 1310 / 1550nm: $\geq -9\text{dBm}$

Multimode 850nm: -18dBm

Multimode 1310nm: -25dBm

Receiving sensitivity range: $-33\text{dBm} \sim -40\text{dBm}$

◆ DVI Port

name		description	
video	interface	DVI-D female	
	standard	DVI 1.0	
	Pixel bandwidth	340MHz	
	Resolution		800x600P60
			1024x768P60
			1280x800P60
			1280x1024P60
			1360x768P60
			1366x768P60
		1400x1050P60	
	1440x900P60		

		1600x900P60
		1600x1200P60
		1680x1050P60
		1280x720P50
		1280x720P60
		1920x1080P24
		1920x1080P25
		1920x1080P30
		1920x1080P50
		1920x1080P60
		1920x1080I60
		1920x1080I50
		1920x1200P60
		3840x2160P30

◆ Electric and mechanic feature

System power: AC180V ~260V; DC -48V; DC +24V

Power consumption: ≤10W

◆ Working environment

Working temperature: -10°C—+60°C

Storage temperature: -40°C—+85°C

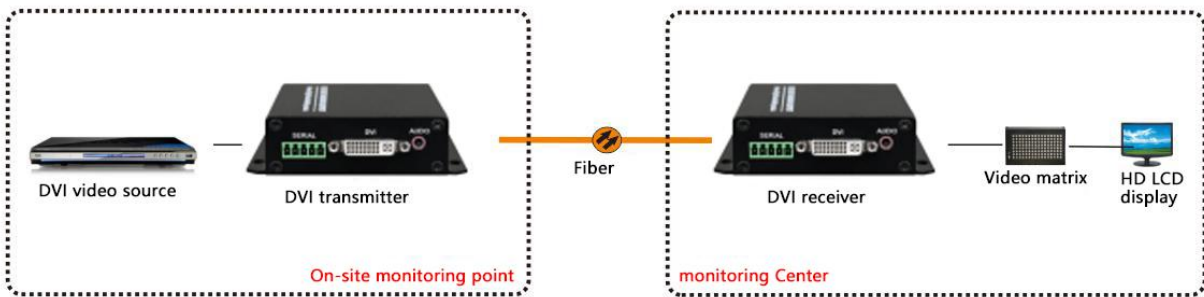
Working Humidity: 0%—95% (no condensation)

MTBF: > 100,000 hour

Specifications

Product number	FCM-DV1-4k
Product function description	1channek 4K DVI Fiber MUX
Service port description	Transmitter: 1 channel 4K DVI interface in; receiver: 1 channel 4K DVI interface out; 1 LC fiber interface
power supply	AC220V OR DC-48V
Product Size	(L×W×H) 173*128*30mm desktop
weight	0.9Kg/pc

Application



<http://www.futuretel.com.cn/en/>