2 fibers Detachable Dual Link DVI module, DDFX-100-TR

Description

New optical dual link DVI extender, DDFX-100-TR is designed compact enough for its transmitter and receiver to be directly plugged to your PC and displays. The DDFX-100 demonstrates same mechanical dimension for each of transmitter and receiver, and enables transparent transmission through the digital uncompressed video data of dual link DVI, WQXGA (2560x1600) at 60Hz or WQUXGA (3840x2400) at 33Hz refresh ratio using leading-edge OPTICIS technology that transmits seven (7) data channels over two (2) LC multi-mode fibers.

At such data bandwidth, DDFX-100 can extend up to 500 meters (1,640feet), and 300 meters (984 feet) with OM1 fiber, which is much over the limits of copper wire extension, without any distribution amplifier or repeater. The transmitter is powered either through the DVI pin from the PC or by a +5V power adaptor with an auto-power switching circuit. The receiver needs a +5V power adaptor to drive.

For better installation flexibility, an unique patent pending feature so called as Self-EDID management is implemented in the transmitter. Through this technique, EDID is emulated in the display by just plugging the transmitter before the installation.

Specification

- Designed in a thin and sleek shape with metal enclosure in order to directly hook up the PC or display.
- Supports up to WQXGA (2560x1600) @60Hz or WQUXGA (3840x2400) @33Hz.
- Transmits signal up to
  - 500m over two (2) LC multi-mode fibers (OM2 and OM3)
  - 300 meters (984 feet) with OM1 fiber
- Provides Self-EDID management, emulating the EDID in the transmitter.
- Supports wide operating temperature range, 0-50 degree.
- Provides indicators: Power-on and Status (signal transmission and EDID learning) in the Tx, and Power-on and Status (Signal detection) in the Rx.
- Size: 39mm x 72mm x 15mm (W x D x H)
- Supports Auto-power switching function in the Tx.
- Certifications: CE / FCC, Class 1 Laser Eye Safety

Applications

- Medical imaging system
- Video wall / Control room
- Film production and editing
- Military / Aerospace

Technical Features

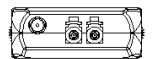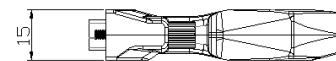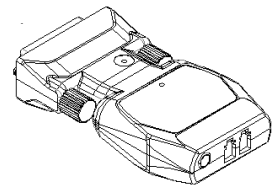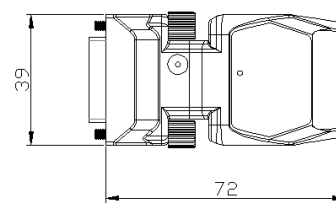| Max. Resolution	WQXGA (2560 x 1600) @60Hz
	WQUXGA (3840 x 2400) @33Hz
PER (500m)	< 10 at UXGA @60Hz
Bit rate	1.65Gbps / Ch
EDID	Self-EDID (Emulating the EDID in Tx)
Power Supply	Auto-switching in Tx, DC Power supply
Indicators	Power (Both), LD (Tx), SD (Rx)

Optical

Fiber Type	Multi-mode
Number of Fiber	2
Termination	LC
Distance	500m over Multi-mode fiber (OM2 or OM3)
	300 meters with OM1 fiber

Physical

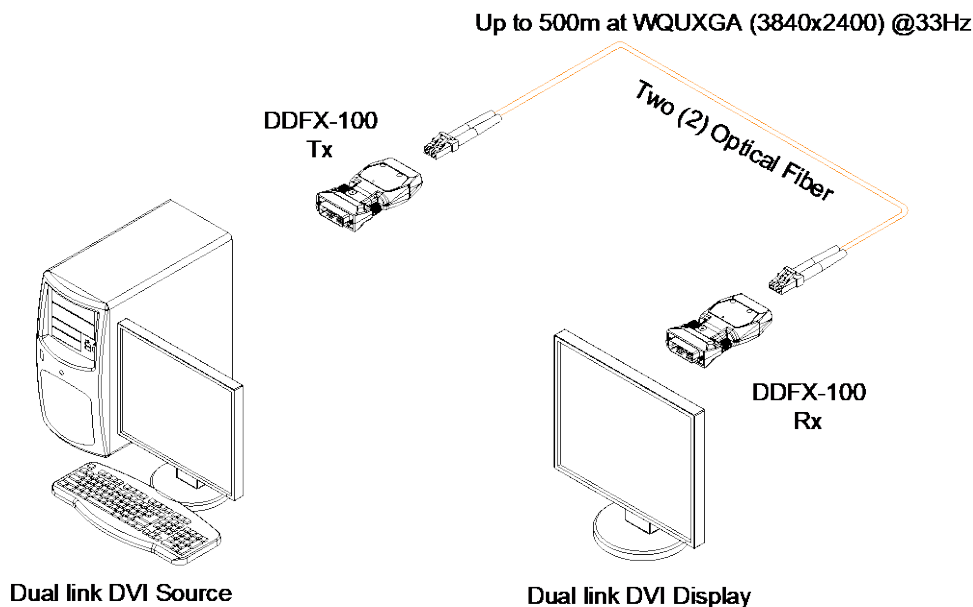| Dimension	39 x 72 x 15mm (W x D x H)
Enclosure	AL die-casting
Power Level	100-240VAC, 50~60Hz 5VDC @1A
Power consumption	Tx: 1.9W, Rx:1.7W
Operating Temp.	0 ~ 50℃
Operating Humid.	10 to 85% RH, non-condensing

Dimension

39 x 72 x 15mm

Connection Diagram

Up to 500m at WQUXGA (3840x2400) @33Hz

DDFX-100 Tx

Two (2) Optical Fiber

DDFX-100 Rx

Dual link DVI Source

Dual link DVI Display

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All contents are subject to be changed without prior notice.