

# Real 4K supporting all optical DP1.2 Extender, DPFX-200-TR



## Descriptions

New optical DisplayPort extender, **DPFX-200-TR** is designed compact enough to be fitted into various installation environments with two (2) LC fibers connection.

The transmitter and receiver set, DPFX-200-TR enables to transmit 4K(4096x2160) at 60Hz signal up to 100m (328feet) over two (2) LC multi-mode fibers, avoiding any tricks like scaling or data compression for lessening a burden of data transmission.

Between the transmitter and the receiver, pure fiber connection by two (2) LC fibers connector gives clean, secure and easy installation with no electrical hazard and a perfect electrical isolation. The DPFX-200-TR can be operated by USB power without external DC power adapter by plugging the supplied USB to DC plug cables to each module.

## Key Features

- Supports **4K** and **DisplayPort 1.2** standards
- Extends **4K (4096x2160)** at 60Hz
- Transmits DP data up to **100m (328feet)** over two (2) LC multi-mode fibers (50/125um).
- Offers total data rate **21.6Gbps** (5.4Gbps per lane)
- Supports **Dual-mode DP** (DP++)
- Supports **Auxiliary I<sup>2</sup>C** channel over fiber
- Supports **Multi-Stream transport**
- Compact design allows direct connect to the DP display.
- Plug & Play
- Auto power switching
- Data security with negligible EMI emission.
- Certifies FCC and CE standards for EMI/RFI emission

## Applications

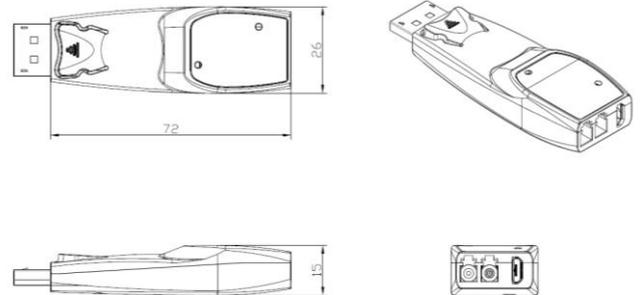
- Medical imaging
- Military
- Control room
- Simulator

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## Technical Features

Resolution	Up to 4K(4096x2160) at 60Hz
Data rate	5.4Gbps (per lane)
Maximum distance	100m (328feet) with (50/125um) fiber
Fiber	LC terminated 2 core multi-mode fibers
AUX CH	Direct AUX CH
Power supplying	TX / RX: External 5V/1A DC power or USB cable
LED Indicators	TX: Power, Signal transmission RX: Power, Signal detection
Operating temperature	0 ~ 50℃
Operating Humid.	0 to 85% RH, non-condensing

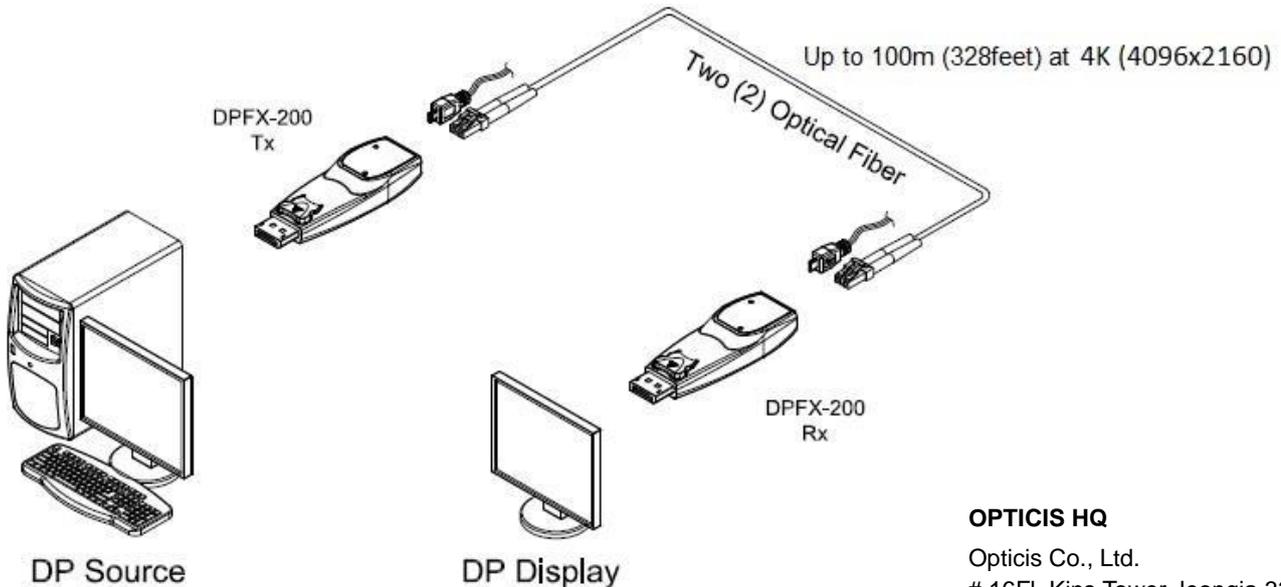
## Drawing of Module



※ 0.2m DisplayPort copper cable is strongly recommended to use on TX(Display Source) side only

※ With using DPAX, Opticis DisplayPort Data Recovery Repeater, DisplayPort signal transmission length has improved up to 300m under certain environment.

## Connection Diagram



### OPTICIS HQ

Opticis Co., Ltd.  
 # 16Fl, Kins Tower Jeongja 331,  
 8 Sungnam-daero, Bundang-gu  
 Sungnam-si, Gyunggi-do, 463-782  
 South Korea  
 Te I: +82 (31) 719-8033  
 Fax: +82 (31) 719-8032  
[www.opticis.com](http://www.opticis.com)  
[tosales@opticis.com](mailto:tosales@opticis.com)

