



# DisplayPort Extender over 2 LC Fibers



## Extend DisplayPort with HDCP and DPCP support over dual LC-terminated multi-mode fiber optic cables

The Gefen EXT-DP-CP-2FO extends DisplayPort up to 1000 feet (300 meters) using two strands of 50/125 $\mu$ m multi-mode (OM2/OM3) LC-terminated fiber optic cable. Resolutions up to 2560 x 1600 (WQXGA) are supported. 62.5/125 $\mu$ m (OM1) fiber may also be used for a maximum range of up to 500 feet (150 meters).

Compared to similar copper-based solutions, optical signal transmission provides galvanic isolation and much better resistance to electromagnetic interference. Sender and Receiver modules feature cast Aluminum enclosures, providing further immunity to radiated noise.

Female connectors allow optimized lengths of DisplayPort cables to be used, preventing stress on source and display connectors. This, along with the compact size of the modules help create a clean and trouble-free installation by reducing clutter around the connector panels.

## How It Works

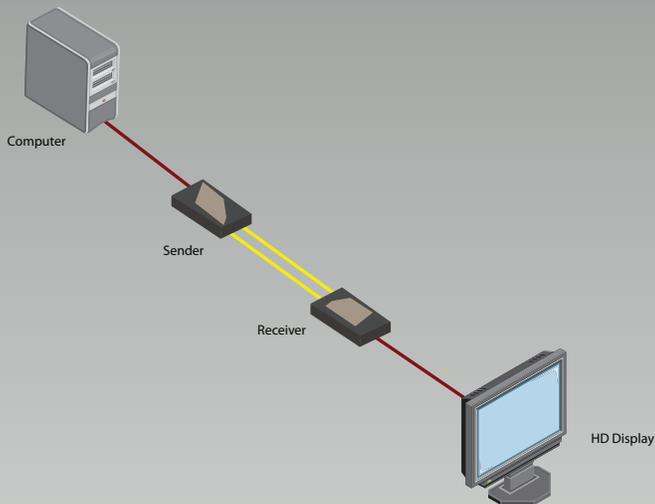
Using the included DisplayPort cables, connect the computer to the Sender module and the Receiver module to a Hi-Def display. Connect up to 1000 feet (300 meters) of duplex 50/125 $\mu$ m multimode (OM2/OM3) LC-terminated fiber optic cable from the Sender to the Receiver unit. 62.5/125 $\mu$ m (OM1) fiber may also be used at a reduced maximum range of up to 500 feet (150 meters). Plug the included power supplies into the Sender and Receiver modules and to available electrical outlets. Alternately, you power the Sender and/or the Receiver unit by using the included USB Type A to DC plug cables, and connecting them between the Sender or Receiver and a USB device that is capable of supplying 5V at 500mA. Power on all associated equipment. A vibrant Hi-Def picture will appear on your display.

### Gefen, LLC

20600 Nordhoff Street, Chatsworth CA 91311  
Tel. (818) 772-9100 (800) 545-6900 Fax (818) 772-9120  
[www.gefen.com](http://www.gefen.com)

## Wiring Diagram

**DISPLAYPORT CABLE**   
**FIBER OPTIC CABLE** 



**HDCP  
&  
DPCP  
COMPLIANT**

## Features \*

<ul style="list-style-type: none"> <li>Extends DisplayPort up to 1000 feet (300 meters) over 2 strands of 50/125<math>\mu</math>m multi-mode (OM2/OM3) LC-terminated fiber optic cable</li> </ul>	<ul style="list-style-type: none"> <li>Supports auxiliary/I<sup>2</sup>C channel over fiber</li> </ul>
<ul style="list-style-type: none"> <li>Extends DisplayPort up to 500 feet (150 meters) over 2 strands of 62.5/125<math>\mu</math>m multi-mode (OM1) LC-terminated fiber optic cable</li> </ul>	<ul style="list-style-type: none"> <li>Cast Aluminum enclosures and Fiber optic transmission eliminate susceptibility to electromagnetic interference (EMI)</li> </ul>
<ul style="list-style-type: none"> <li>Supports 1080p Full HD at 120Hz and dual-link resolutions up to 2560 x 1600 (WQXGA)</li> </ul>	<ul style="list-style-type: none"> <li>HDCP and DPCP compliant</li> </ul>
<ul style="list-style-type: none"> <li>Compliant with DisplayPort 1.1a standard</li> </ul>	<ul style="list-style-type: none"> <li>Compact Sender and Receiver modules and female DisplayPort connectors provide clean and easy installation</li> </ul>
<ul style="list-style-type: none"> <li>Supports Dual-Mode DP (DP++)</li> </ul>	<ul style="list-style-type: none"> <li>FCC and CE compliant for RFI (radio frequency interference) and EMI (electromagnetic immunity)</li> </ul>

## Specifications \*

Video bandwidth	10.8Gbps (2.7Gbps per lane, 4 lanes)
Video Input Connector (Sender)	(1) DP-20-pin, female
Video Output Connector (Receiver)	(1) DP-20-pin, female
Link Connector (Sender/Receiver)	(2) Type LC
Power Supply (Sender/Receiver)	5V DC
Power Consumption (Sender/Receiver)	2.1W max. (each)
Optical Power Budget	9.4 dB
Operating Temperature	0° to + 50° C
Storage Temperature	- 30° to + 70° C
Operating Humidity	10 to 85% RH, non-condensing
Storage Humidity	5 to 90% RH, non-condensing
Dimensions (Sender/Receiver, W x H x D)	1.4" x 0.6" x 2.8" (35mm x 16mm x 72mm)
Shipping Weight	1.8 lbs (0.8 kg)

\* Features and specifications are subject to change without notice.  
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