



# DVI Extender 1FO

**EXT-DVI-CP-FM10**  
**User Manual**



**[www.gefen.com](http://www.gefen.com)**



## ASKING FOR ASSISTANCE

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### Notice

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# INTRODUCTION

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Congratulations on your purchase of the Gefen *DVI Extender 1FO*. Your complete satisfaction is very important to us.

## **Gefen**

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to install and simple to operate.

## **The Gefen DVI Extender 1FO**

The DVI fiber optic pigtail module extender with HDCP support extends DVI up to 1000 feet (300 meters) using single-strand 50/125µm multimode (OM2) SC-terminated fiber optic cable to a supporting display at 1920 x1200 WUXGA resolution. Optical signal transmission provides galvanic isolation and immunity to electromagnetic interference compared to similar copper based extension modules.

The pigtail design of the Sender and Receiver modules relieves stress and clutter on the source and display connector panels. Their compact design makes them ideal for fitting neatly behind equipment for a clean installation, making it a great way to easily extend DVI.

## **How It Works**

The Sender pigtail end plugs into the DVI source. The Receiver pigtail end plugs into the display. Connect a single-strand 50/125µm multimode (OM2) SC-terminated fiber optic cable from the Sender module to the Receiver module and a vibrant Hi-Def picture will appear on your display.

## **OPERATION NOTES**

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### **PLEASE READ THESE NOTES BEFORE INSTALLING OR OPERATING THE DVI EXTENDER 1FO**

- The Sender module does not need to be powered unless the source does not supply enough power through the DVI connector.

# FEATURES

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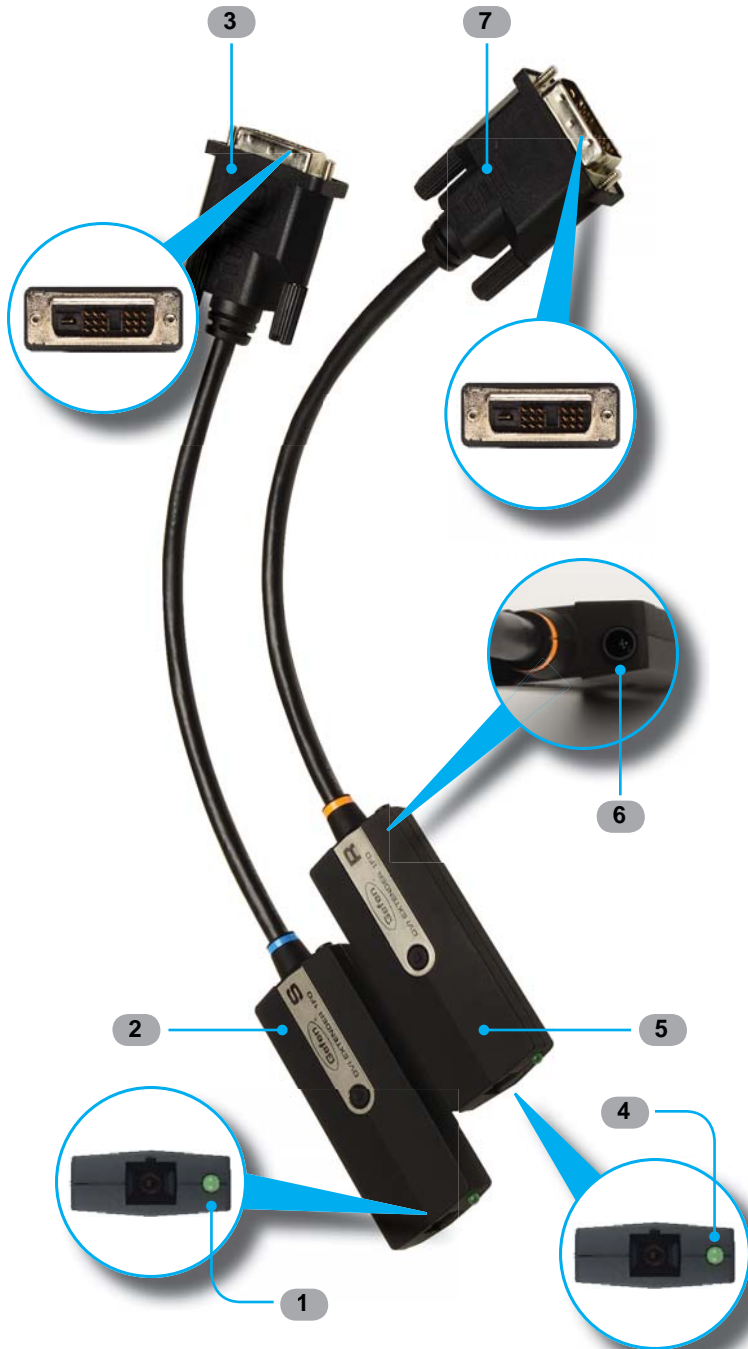
## Features

- Extends DVI up to 1000 feet (300 meters) using a single-strand 50/125µm multimode (OM2) SC-terminated fiber optic cable
- Supports resolutions up to 1920 x 1200 (WUXGA)
- Fiber optic transmission eliminates electromagnetic interference (EMI)
- Pigtail design relieves stress and clutter on the source and display connector panels
- DDC bidirectional support
- HDCP pass-through
- Compact Sender and Receiver modules provide a clean, easy installation
- FCC and CE compliant for EMI/RFI emission

## Package Includes

- (1) DVI Fiber Optic Modular Extender with HDCP - Sender Pigtail
- (1) DVI Fiber Optic Modular Extender with HDCP - Receiver Pigtail
- (1) 5V DC power supply
- (1) Quick-Start Guide

# CABLE LAYOUT





## CABLE DESCRIPTIONS

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**1 Power Indicator (Sender module)**

This LED will glow bright green when the DVI source is supplying sufficient power to the Sender module. If the LED flashes green, then the source is unable to power the Sender module. See page 7 for more information.

**2 Fiber Optic Connector (Sender module)**

Connect an SC-terminated fiber optic cable from the Sender pigtail module to the SC fiber connector on the Receiver pigtail module.

**3 DVI Connector, male (Sender module)**

Connect this end of the Sender pigtail module to the computer or other DVI source.

**4 Power Indicator (Receiver module)**

This LED will glow bright green when one of the included 5V DC power supplies is connected to the power receptacle on the Receiver module.

**5 Fiber Optic Connector (Receiver module)**

Connect the SC-terminated fiber optic cable from the Sender pigtail module to the SC fiber connector on the Receiver pigtail module.

**6 DVI Connector, male (Receiver module)**

Connect this end of the Receiver pigtail module to the display.

**7 Power Receptacle**

Connect the included 5V DC power supply to this power receptacle on the Receiver pigtail module. Both the Sender and Receiver module have power receptacles. However, the Sender module does not need to be externally powered unless the source does not supply enough power through the DVI connector.

# CONNECTING THE DVI EXTENDER 1FO

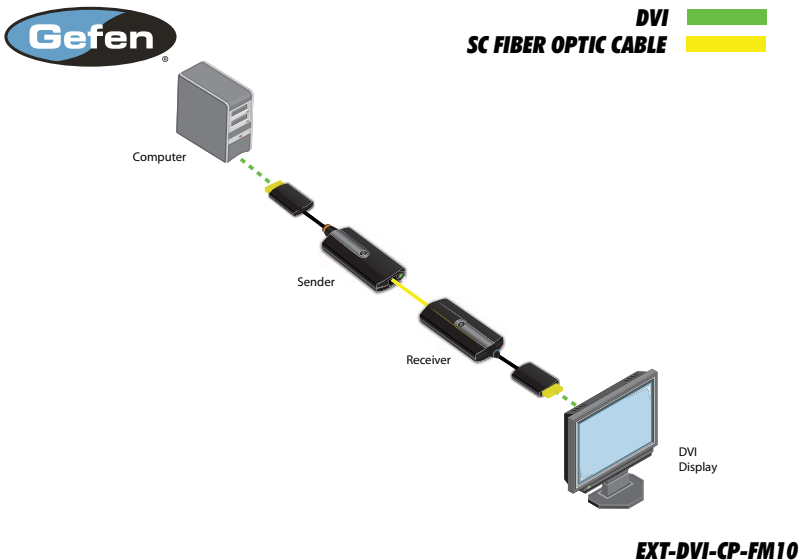
## How to Connect the DVI Extender 1FO

1. Connect the Sender pigtail module to the computer or other DVI source.
2. Connect the Receiver pigtail module to the display.
3. Connect a single strand of SC-terminated fiber optic cable between the fiber optic connectors on the Sender and Receiver pigtail module.
4. Connect the included 5V DC power supply to the Receiver unit.
5. Power-on the display and DVI source.



**NOTE:** The Sender module does not need to be externally powered unless the source does not supply enough power through the DVI connector. The Receiver module must always be powered using one of the include 5V DC power supplies.

## Wiring Diagram for the DVI Extender 1FO



# OPERATING THE DVI EXTENDER 1FO

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## Power Indicators

The power indicators on both the Sender and Receiver modules of the DVI Extender 1FO provide information about the current power state.

### *Normal operation*

If the power indicator on both the Sender and Receiver module glows bright green, then both the Sender and Receiver module are powered and a valid connection exists between the DVI source and the display.

**Sender module**



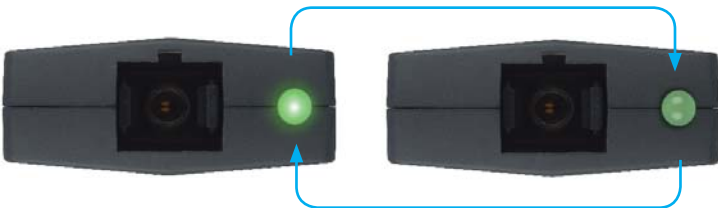
**Receiver module**



### *No power on Sender module*

If the computer or other DVI source is able to supply the required 5V to the Sender module, then the power indicator on the Sender module will flash bright green. If this is the case, then connect the secondary 5V DC power supply (included) to the power receptacle on the Sender module.

**Sender module**



## SPECIFICATIONS

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Maximum Pixel Clock.....	165 MHz
Video Input Connector (Sender).....	(1) DVI-D, 19-pin, male
Video Output Connector (Receiver).....	(1) DVI-D, 19-pin, male
Link Connector (Sender/Receiver).....	(1) Type SC fiber (50 /125µm)
Power Supply (Sender / Receiver).....	5V DC
Power Consumption (Receiver).....	1.5W (max.)
Operating Temperature.....	0 to +122° F (0° to +50° C)
Storage Temperature.....	-4 to +158° F (-20° to +70° C)
Relative Humidity.....	10% to 80%
Dimensions (W x H x D).....	1.54" x 0.63" x 11.49" (39.11mm x 16mm x 291.84mm)
Shipping Weight.....	1 lb (0.45 kg)

## WARRANTY

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Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at [www.gefen.com](http://www.gefen.com).

## PRODUCT REGISTRATION

**Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.**







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This product uses UL or CE listed power supplies.