DisplayPort Fiber Optic
Pigtail Modules

EXT-DP-CP-FM10

User Manual

Release A7

Gefen
®

Important Safety Instructions

GENERAL SAFETY INFORMATION

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this product near water.

6. Clean only with a dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Batteries that may be included with this product and/or accessories should never be exposed to open flame or excessive heat. Always dispose of used batteries according to the instructions.

Warranty Information

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.

PRODUCT REGISTRATION

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

Contacting Gefen Technical Support

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Chatsworth, CA 91311

Telephone: (818) 772-9100
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Email: support@gefen.com

Visit us on the Web: www.gefen.com

Technical Support Hours: 8:00 AM to 5:00 PM Monday - Friday, Pacific Time

DisplayPort Fiber Optic Pigtail Modules
is a trademark of Gefen, LLC.

Important Notice
Gefen, LLC reserves the right to make changes in the hardware, packaging, and any
accompanying documentation without prior written notice.

Operating Notes

- Both the Sender and Receiver pigtail modules have power receptacles and must be connected to the included power supplies for proper operation.

- The maximum extension distances are listed based on the type of fiber optic cable that is being used:

  ► OM1: Up to 300 meters

  ► OM2 and OM3: Up to 1000 meters

Features and Packing List

Features

- Extends DisplayPort up to 3300 feet (1000 meters) over a single-strand of 50/125µm multimode (OM2 / OM3) SC-terminated fiber optic cable

- Supports 1080p Full HD at 120Hz and dual-link resolutions up to 2560 x 1600 (WQXGA)

- Compliant with DisplayPort 1.1 standard

- Fiber optic transmission eliminates electromagnetic interference (EMI)

- Pigtail design relieves stress and clutter on the source and display connector panels

- HDCP and DPCP-compliant

- DDC bi-directional support

- Compact Sender and Receiver modules provide a clean, easy installation

- FCC and CE compliant for EMI/RFI emission

Packing List

The *DisplayPort Fiber Optic Pigtail Modules* ships with the items listed below. If any of these items are not present in your box when you first open it, immediately contact your dealer or Gefen.

- 1 x DP Extender 1FO - Sender Pigtail module
- 1 x DP Extender 1FO - Receiver Pigtail module
- 2 x 5V / 2A DC Power Supplies
- 1 x Quick-Start Guide

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01 Getting Started

Cable Layout

Sender Module
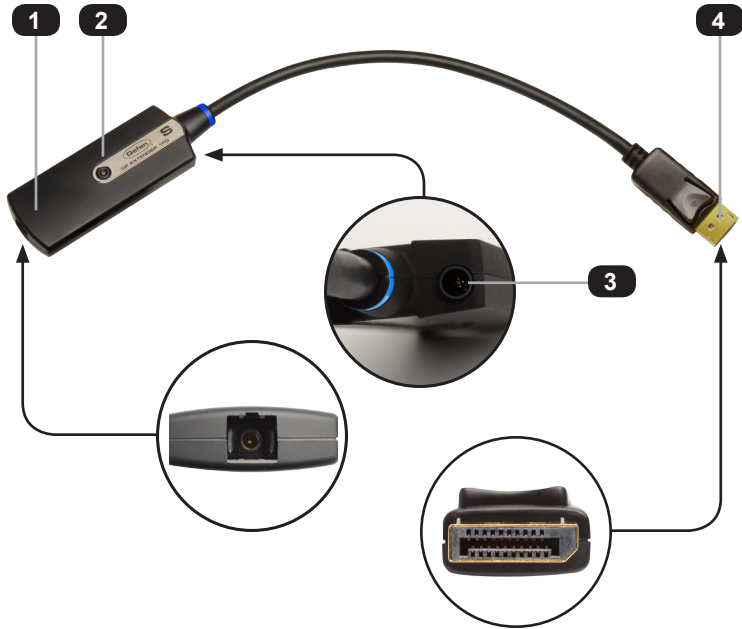
| ID	Name	Description
1	Fiber optic connector	Connect an SC-terminated fiber optic cable from this connector to the fiber optic connector on the Receiver pigtail module.
2	Power indicator	This LED will glow bright blue when one of the included 5V DC power supplies is connected to the power receptacle on the Sender module.
3	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 and must be connected to the included power supplies for proper operation.
4	DisplayPort connector	Connect this end of the Sender pigtail module to the computer or other DisplayPort source.

Receiver Module

ID	Name	Description
1	Fiber optic connector	Connect an SC-terminated fiber optic cable from this connector to the fiber optic connector on the Sender pigtail module.
2	Power indicator	This LED will glow bright blue when one of the included 5V DC power supplies is connected to the power receptacle on the Receiver module.
3	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 and must be connected to the included power supplies for proper operation.
4	DisplayPort connector	Connect this end of the Receiver pigtail module to the display.

Installation

Connecting the DisplayPort Fiber Optic Pigtail Modules

1. Connect the Sender pigtail module to the computer or other DisplayPort 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. Refer to the Operating Notes for information on fiber optic cable-types and distances.

4. Connect the included 5V DC power supplies to both the Sender and Receiver modules.

Sample Wiring Diagram

DISPLAYPORT

FIBER OPTIC CABLE

Gefen

Computer

Sender

Receiver

DisplayPort
Display

EXT-DP-CP-FM10
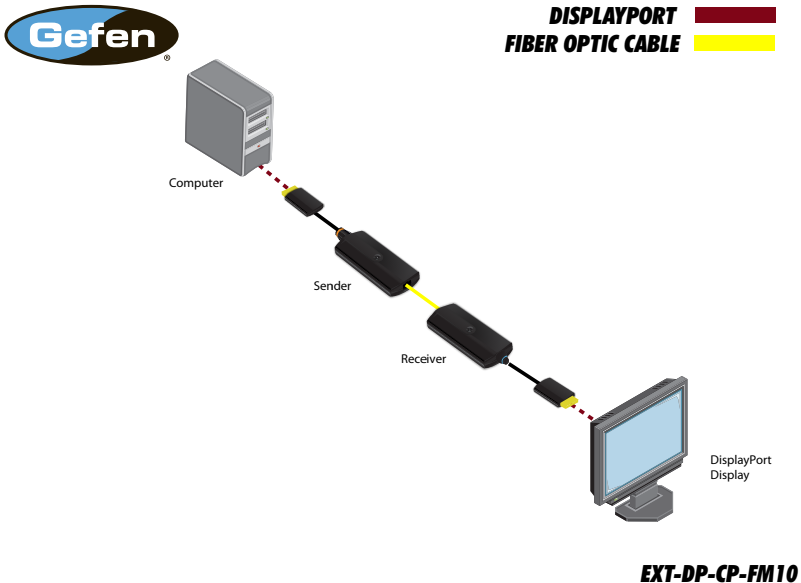
Power Indicators

The power indicators on both the Sender and Receiver modules of the DisplayPort Fiber Optic Pigtail Modules provide information about the current power state.

- If the power indicator on both the Sender and Receiver module glows bright blue, then both the Sender and Receiver module are powered.

- If either power indicator is off, then the module is not powered. Ensure that the power adapter is securely connected to the power receptacle on the module.

Power indicator

Sender module

Power cable

SC fiber cable

Receiver module

Power indicator

Power cable

SC fiber cable
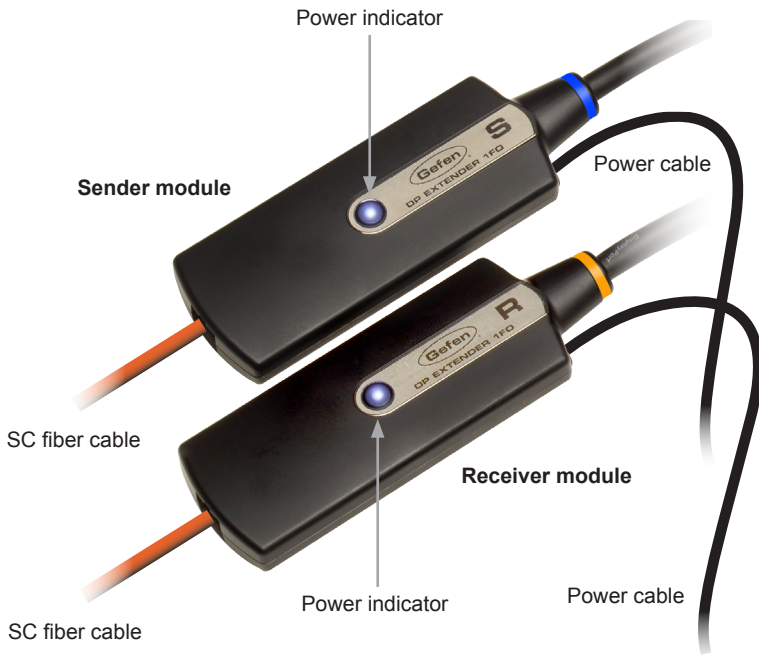
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02 Appendix

Specifications

Supported Formats		
Resolution (max.)	•	2560 x 1600

Electrical		
Video bandwidth	•	3.5 Gb/s (per channel)
Power indicators (Sender / Receiver)	•	1 x LED, blue

Connectors		
Video Input (Sender)	•	1 x DisplayPort 20-pin, male
Video Output (Receiver)	•	1 x DisplayPort 20-pin, male
Link (Sender / Recceiver)	•	1 x SC-type

Operational		
Power Supply (Receiver)	•	5V / 2A DC
Power Consumption	•	1.5W (max.)
Operating Temperature	•	+32 to +122° F (0 to +50° C)
Storage Temperature	•	-4 to +158° F (-20 to +70° C)
Operating Humidity	•	10 to 80% RH (non-condensing)

Physical		
Dimensions (W x H x D)	•	1.50" x 0.47" x 3.51" (38.10mm x 11.93mm x 89.15mm)
Shipping Weight	•	1.0 lb (0.45 kg)

Stretch it. Switch it. Split it. Gefen's got it. ®