Digital Audio Extender

EXT-DIGAUD-141

User Manual

Release A5

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this unit 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 unit 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 unit.

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

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

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

14. Refer all servicing to qualified service personnel. Servicing is required when the unit 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 unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Batteries that may be included with this unit 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.

Technical Support

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Product Registration

Register your product here: http://www.gefen.com/kvm/Registry/Registration.jsp

- Use CAT-5e (or better) cables to connect the Sender and Receiver units. The length of the cable should not exceed 330 feet (100 meters) in length.

- The Digital Audio Extender will accept audio on either the SPDIF or OPT port, on the Sender unit, and output the audio on both the OPT and SPDIF ports of the Receiver unit. However, when both digital and optical cables are used to connect the source to the Sender unit, the SPDIF port has priority. To hear the audio signal on the OPT port, on the Receiver unit, disconnect the digital coax cable from the SPDIF port on the Sender unit.

Features

- Extends any S/PDIF and TOSLINK® digital audio device up to 330 feet (100 meters) from the source
- Supports multichannel digital audio like Dolby® Digital and DTS™
- Supplies clear digital audio over long distances as if connected locally
- Streamlines audio installations by allowing source devices to be located in off-site or unseen rack
- One CAT-5e cable used for extension
- Audio is transmitted digitally for zero signal loss

Packing List

The Digital Audio Extender ships with the items listed below. If any of these items are not present in the box when you first open it, immediately contact your dealer or Gefen.

- 1 x Digital Audio Extender (Sender unit)
- 1 x Digital Audio Extender (Receiver unit)
- 1 x 6 ft. optical cable
- 1 x 5V DC power supply
- 1 x Quick-Start Guide

Table of Contents

Digital Audio Extender

1 Getting Started

Sender unit

Receiver unit

ID	Name	Description
1	SPDIF	Connect an RCA-type cable from the digital output of the source to this port. This port will output digital audio from either the **OPT** or **SPDIF** port on the Sender unit. If a digital audio source is connected to both the **SPDIF** and **OPT** ports, on the Sender unit, then the **SPDIF** audio signal will be heard on the output.
2	OPT	Connect an optical audio cable from this TOSLINK™ port to an audio amplifier. This port will output digital audio from either the **OPT** or **SPDIF** port on the Sender unit. If a digital audio source is connected to both the **SPDIF** and **OPT** ports, on the Sender unit, then the **SPDIF** audio signal will be heard on the output.
3	CAT-5	Connect a CAT-5e cable (or better) from this port to the **CAT-5** port on the Receiver unit.
4	Power LED	This LED indicator will glow solid red when the Receiver unit is powered. The Receiver unit is powered only when the Sender unit is powered and connected to the Receiver unit using a CAT-5e (or better) cable.

Connection Instructions

► **Audio**

1. Connect an RCA- type cable from the digital output of the audio source to the **SPDIF** port on the Sender unit.

2. Connect the included optical cable from the optical audio output of the audio source to the **OPT** port on the Sender unit.

3. Connect an RCA-type cable from the **SPDIF** port on the Receiver unit to the AV receiver.

4. Connect an optical cable from the **OPT** port on the Receiver unit to the AV receiver.

    The Digital Audio Extender will accept audio on either the **SPDIF** or **OPT** port, on the Sender unit, and output the audio on both the **OPT** and **SPDIF** ports of the Receiver unit.

> **Information**
>
> When both digital and optical cables are used to connect the source to the Sender unit, the **SPDIF** port has priority. To hear the audio signal on the **OPT** port, on the Receiver unit, disconnect the digital coax cable from the **SPDIF** port on the Sender unit.
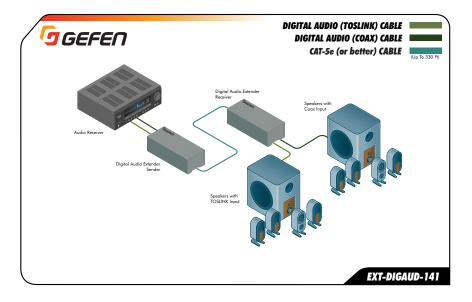
► **CAT-5**

5. Connect a CAT-5e (or better) cable from the CAT-5 port on the Sender unit to the **CAT-5** port on the Receiver unit.

► **Power**

6. Connect the included power supply to the **5V DC** power receptacle on the Sender unit and connect the power cord to an available electrical outlet.

    Power to the Receiver unit is supplied by the Sender unit, over the CAT-5e cable.

Sample Wiring Diagram

Digital Audio Extender

2	**Appendix**

Specifications

Connectors, Controls, and Indicators	
Audio Input	• 1 x S/PDIF • 1 x TOSLINK®
Audio Output	• 1 x S/PDIF • 1 x TOSLINK®
CAT-5	• 1 x RJ-45, shielded
Power Indicator	• 1 x LED, red

Operational	
Power Supply	• 5V DC
Power Consumption	• 5W maximum

Physical	
Dimensions (W x H x D)	• 3.8" x 1.2" x 1.4" (96mm x 30mm x 35mm)
Shipping Weight	• 5 lbs (2.3 kg)