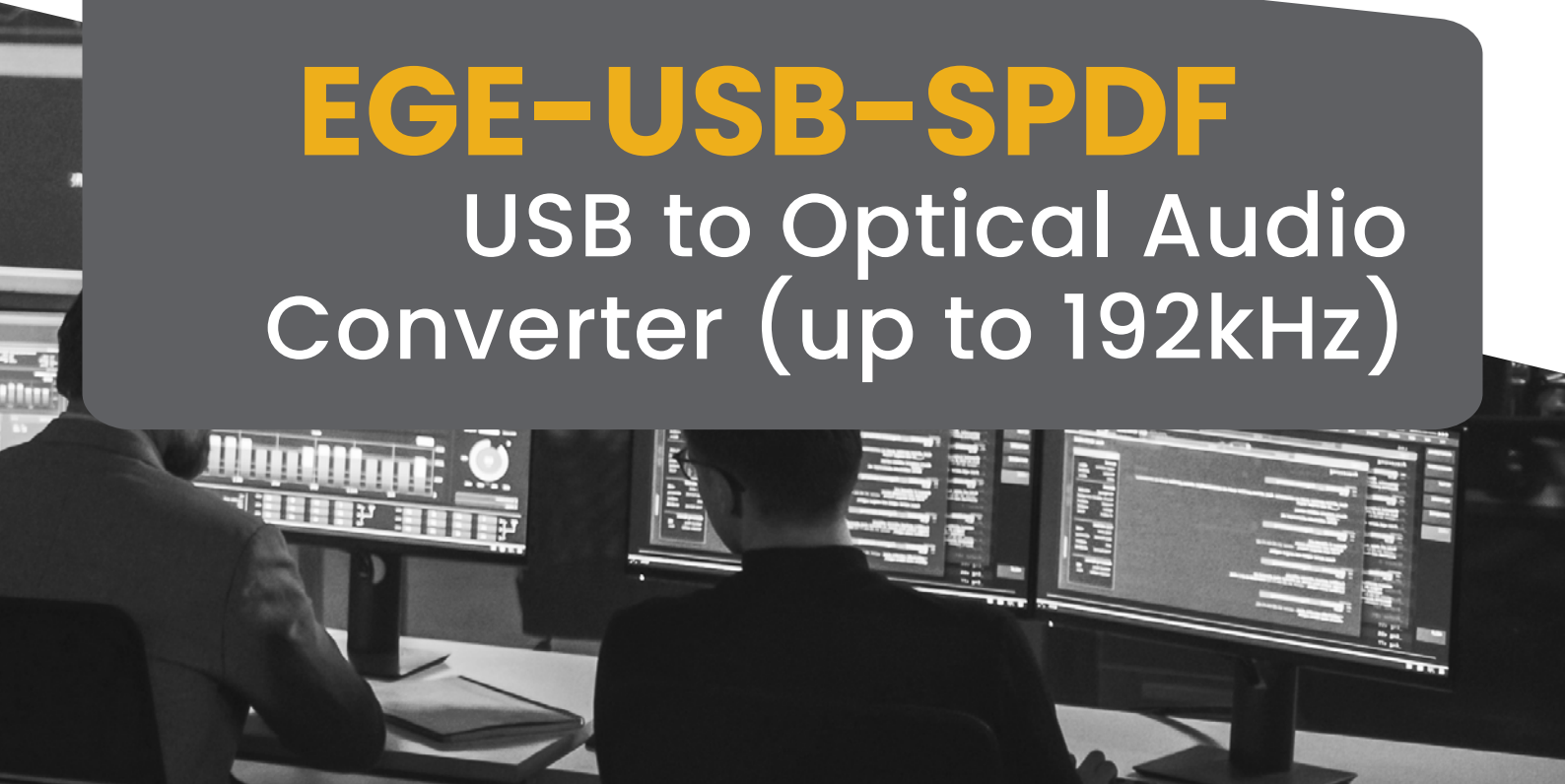


geratech<sup>®</sup>



# EGE-USB-SPDF

USB to Optical Audio  
Converter (up to 192kHz)



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**SAFETY PRECAUTIONS**

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

**REVISION HISTORY**

VERSION NO.	DATE (DD/MM/YY)	SUMMARY OF CHANGE
RDV1	16/03/16	Preliminary release
RDV2	19/04/17	Updated text/diagrams

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## 1. INTRODUCTION

This unit is a simple but smart device and no external power is required. It allows you to connect your PC/laptop to an audio amplifier or other audio destination that has an S/PDIF input without needing a dedicated audio card. This compact HD audio product supports LPCM 2.0 audio with a maximum sampling rate of 192kHz at 24bits. This unit connects to your PC/laptop using any available USB 2.0 (or higher) port (Windows and Mac OSX compatible).

## 2. APPLICATIONS

- High-resolution audio playback
- Improved audio quality from laptops for presentations or entertainment

## 3. PACKAGE CONTENTS

- 1xUSB to Optical Audio Converter
- 1xDriver Disk
- 1xOperation Manual

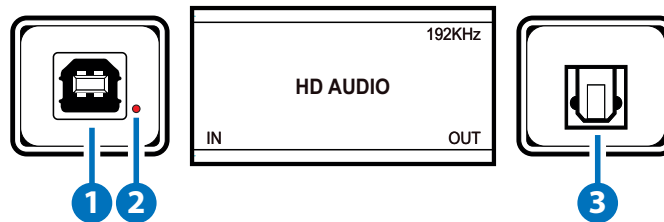
## 4. SYSTEM REQUIREMENTS

- Audio source equipment such as PC/Mac/laptop with an available USB port.
- Optical audio receiving equipment such as audio amplifiers or powered speakers.
- Windows XP, Vista, 7, 8, 8.1, 10 (32 & 64-bit) or Apple OSX version 10.6.4 and later.

## 5. FEATURES

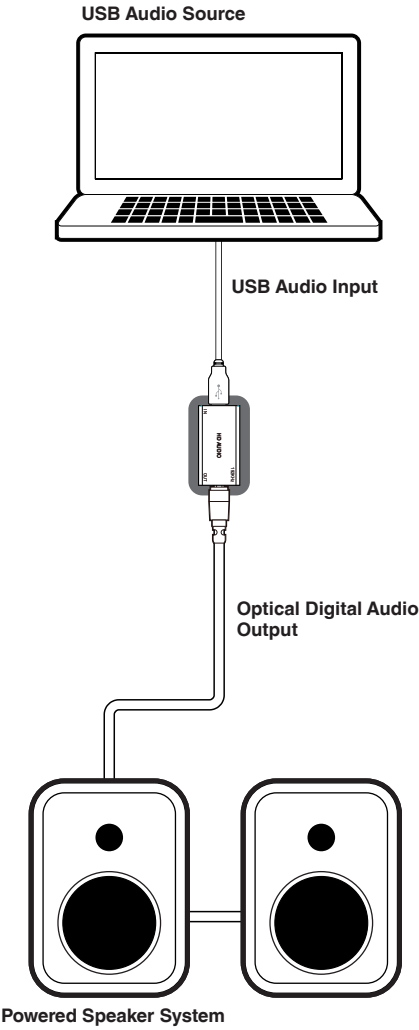
- Output HD audio from your PC/laptop to an audio amplifier
- Superior USB audio processor (XMOS U8A) which supports up to 192kHz/24bits sample rate
- Superior optical module supporting up to 192kHz audio
- Simple operation and compact design
- No external power required

## 6. OPERATION CONTROLS AND FUNCTIONS



- 1 USB IN:** Connect to computer source equipment with an available USB port such as a PC/Laptop (Windows and Mac Operating Systems are compatible).
- 2 POWER LED:** This LED will illuminate RED to indicate the unit is on and receiving power from the USB connection.
- 3 OPTICAL OUT:** Connect to powered speakers or an amplifier for digital audio output using an appropriate optical cable.

7. CONNECTION DIAGRAM



## 8. SPECIFICATIONS

<b>Input Port</b>	1×USB Type-B
<b>Output Port</b>	1×TOSLINK
<b>Input Audio Format</b>	USB Audio 2.0
<b>Output Audio Format</b>	LPCM 2.0
<b>Audio Sample Rates</b>	44.1, 48, 88.2, 96, 176.4, 192kHz
<b>ESD Protection</b>	Human Body Model: ±12kV (Air Discharge) ±8kV (Contact Discharge)
<b>Dimensions</b>	69mm×22.5mm×25mm (W×H×D) [Case Only] 69mm×22.5mm×25mm (W×H×D) [All Inclusive]
<b>Weight</b>	36g
<b>Chassis Material</b>	Aluminum
<b>Silkscreen Color</b>	Black
<b>Operating Temperature</b>	0°C - 40°C/32°F - 104°F
<b>Storage Temperature</b>	-20°C - 60°C/-4°F - 140°F
<b>Relative Humidity</b>	20 - 90% RH (Non-condensing)

## 9. ACRONYMS

ACRONYM	COMPLETE TERM
<b>HD</b>	High-Definition
<b>LPCM</b>	Linear Pulse-Code Modulation
<b>PC</b>	Personal Computer
<b>S/PDIF</b>	Sony/Philips Digital Interface Format
<b>USB</b>	Universal Serial Bus







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