

geratech[®]



EGE-USB-COX

USB to Coaxial Audio
Converter (up to 384kHz)



DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. Geratech assumes no responsibility for any infringements of patents or other rights of third parties which may result from its use.

Geratech assumes no responsibility for any inaccuracies that may be contained in this document. Geratech also makes no commitment to update or to keep current the information contained in this document.

Geratech reserves the right to make improvements to this document and/or product at any time and without notice.

COPYRIGHT NOTICE

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or any of its part translated into any language or computer file, in any form or by any means—electronic, mechanical, magnetic, optical, chemical, manual, or otherwise—without express written permission and consent from Geratech.

© Copyright 2017 by Geratech.

All Rights Reserved.

TRADEMARK ACKNOWLEDGMENTS

All products or service names mentioned in this document may be trademarks of the companies with which they are associated.

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

CONTENTS

1. Introduction	1
2. Applications	1
3. Package Contents.....	1
4. System Requirements	1
5. Features	2
6. Operation Controls and Functions.....	2
7. Connection Diagram	3
8. Specifications	4
9. Acronyms	4



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 384kHz 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 Coaxial Audio Converter
- 1xDriver Disk
- 1xOperation Manual

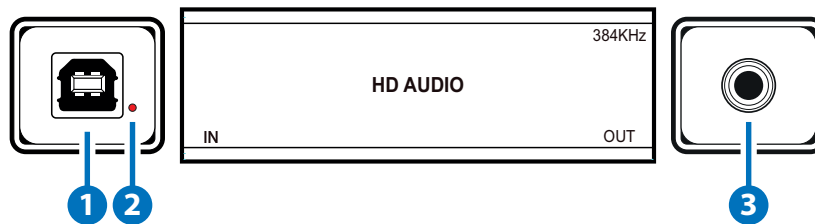
4. SYSTEM REQUIREMENTS

- 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

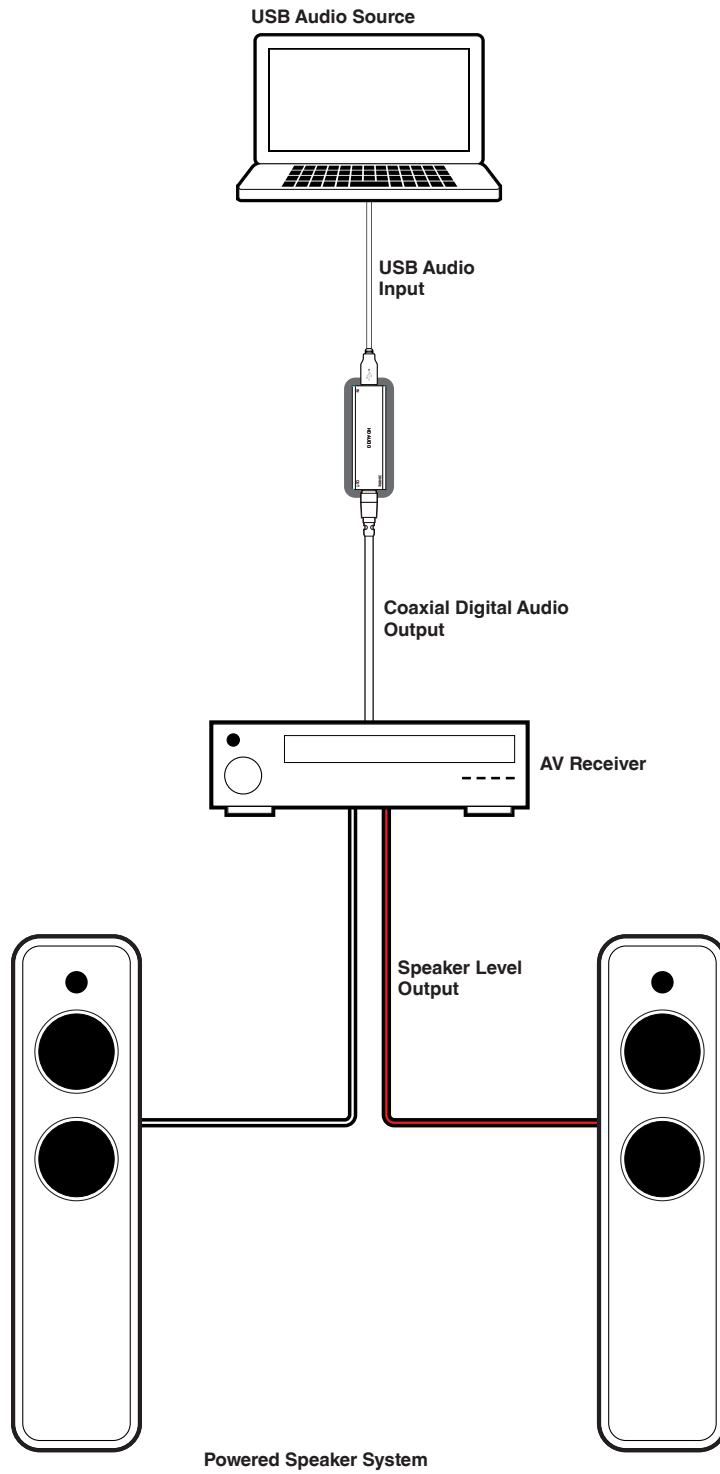
- Output HD audio from your PC/laptop to an audio amplifier
- Superior USB audio processor (XMOS U8A) which supports up to 384kHz/24bits sample rate
- Superior coaxial module supporting up to 384kHz audio
- Simple operation and compact design
- No external power required

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 COAXIAL OUT:** Connect to powered speakers or an amplifier for digital audio output using an appropriate optical cable.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Input Port	1xUSB Type-B
Output Port	1xRCA
Input Audio Format	USB Audio 2.0
Output Audio Format	LPCM 2.0
Audio Sample Rates	44.1, 48, 88.2, 96, 176.4, 192, 352.8, 384kHz
ESD Protection	Human Body Model: ±12kV (Air Discharge) ±8kV (Contact Discharge)
Dimensions	77.5mm×22.5mm×25mm (W×H×D) [Case Only] 86.5mm×22.5mm×25mm (W×H×D) [All Inclusive]
Weight	48g
Chassis Material	Aluminum
Silkscreen Color	Black
Operating Temperature	0°C - 40°C/32°F - 104°F
Storage Temperature	-20°C - 60°C/-4°F - 140°F
Relative Humidity	20 - 90% RH (Non-condensing)

9. ACRONYMS

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



www.egerate.com

www.geratech.eu