

geratech<sup>®</sup>



# EGE-SPDFCOX-IP-AUD

Optical & L/R to L/R  
Audio Controller





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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
VR0	05/03/15	Preliminary Release

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## 1. INTRODUCTION

The Optical & L/R to L/R Audio Controller allows user with flexible and distance control over audio performance. With L/R & Optical inputs to L/R output, this device provides a digital to analog conversion or analog to analog bypass function. Controls like Telnet & WebGUI allow user with easy adjustment and remote over audio output. On-panel control with LED indication adds-on the friendly use for the device.

## 2. APPLICATIONS

- Entertainment Room / Home Theater
- Show Room / Demo Room
- Audio equipment central control

## 3. PACKAGE CONTENTS

- Optical & L/R to L/R Audio Controller
- 5V / 2.6A DC power supply
- Operation Manual

## 4. SYSTEM REQUIREMENTS

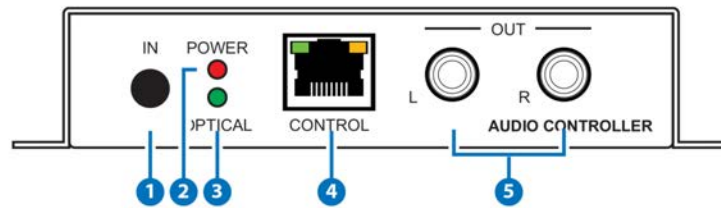
Input source equipment such as CD /DVD player or computer via optical or analog stereo output to amplifier or speaker with analog stereo output.

## 5. FEATURES

- Support optical input sampling rate up to 192kHz
- Supports Optical & L/R inputs to L/R output
- Support Stereo out or Mono out
- Support Volume control by Telnet or WebGUI
- Control switch by single button press

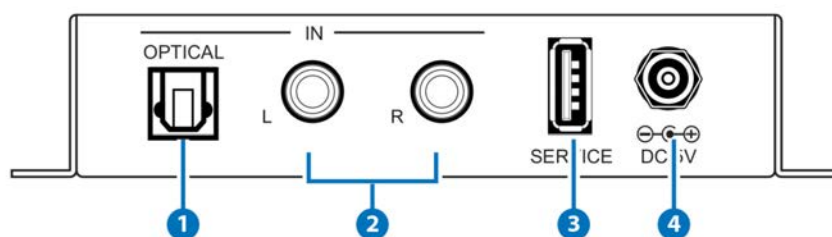
## 6. OPERATION CONTROLS AND FUNCTIONS

### 6.1 Front Panel



- 1 **IN Button:** Short press IN button to switch the audio source. Long press IN button up to 4 seconds will reset the device to Default Ethernet Setting. The Power LED will blink 5 times.
- 2 **POWER LED:** When power is on, the LED light will illuminate.
- 3 **OPTICAL LED:** When source switch to Optical input selection, the LED light will illuminate. When switch to L/R the LED will unilluminate.
- 4 **CONTROL:** This slot is to connect with intranet service line for telnet/WebGUI control.
- 5 **L/R OUT:** These slots are to connect with active speakers or amplifier's L/R inputs.

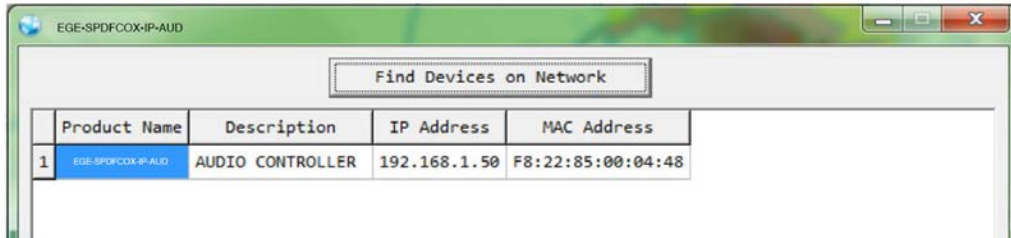
### 6.2 Rear Panel



- 1 **OPTICAL IN:** This slot is to connect with input source's optical output port.
- 2 **L/R IN:** These slots are to connect with input source's L/R output port.
- 3 **SERVICE:** This slot is reserved for USB firmware update use only.
- 4 **DC 5V:** Connect the adaptor included in the package and connect to AC wall outlet for power supply.

### 6.3 Searching Software Application and Installation

Connect the AUDIO CONTROLLER with an active network system and open the application from the directory in a PC/Laptop. Click on Find Devices on Network and a list of the devices will show up.



Double click on the product name and an InfoFrom page will appear to show the products' detail or use the IP Address listed to control the device directly.

Default Ethernet Setting is on Static mode with:

IP: 192.168.1.50

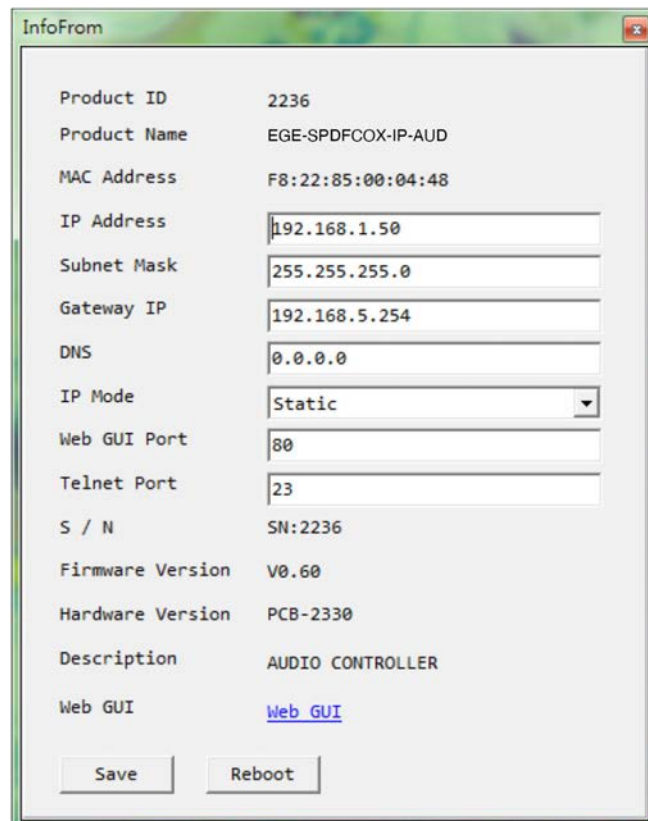
SUBNET: 255.255.255.0

GATEWAY: 192.168.5.254

HTTP PORT: 80

TLENET PORT: 23

6.4 RS-232 Protocol





**6.4 Telnet Commands**

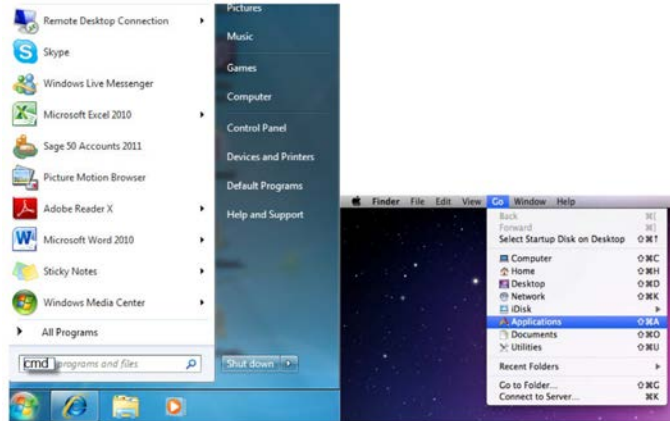
Command	Description	Parameter
SOURCE N	SOURCE SELECTION	N=0/Optical, 1/RCA IN or ?
VOL N	OUTPUT VOLUME SETTING	N=-40~10dB (0) or ?
MUTE N	OUTPUT VOLUME MUTE CONTROL	N=0(Unmute), 1(Mute) or ?
MONO N	SET MOMO OR STEREO MODE	N=0(Stereo), 1(Mono) or ?
NAME N1 N2	SET INPUT NAME	N1=0(Optical), 1(RCA) N2=Up to 24 Characters or ?
IPCONFIG	SHOW IP CONFIGURATION STATUS	None
SIPADDR N	SET ETHERNET IP ADDRESS	N=X.X.X.X X=0~255 (192.168.1.50)
SNETMASK N	SET ETHERNET NETMASK	N=X.X.X.X X=0~255 (255.255.255.0)
SGATEWAY N	SET ETHERNET GATEWAY	N=X.X.X.X X=0~255 (192.168.5.254)
RSTIP	IP CONFIGURATION RESET TO <DHCP>	None (Statics)
VER	SHOW UNIT FIRMWARE VERSION	None
REBOOT	SYSTEM REBOOT	None
FADEFAULT	FACTORY RESET	None
ETH_FADEFAULT	ETHERNET PARAMETER SET FACTORY DEFAULT	None
?	SHOW COMMAND LIST	None
HELP	SHOW COMMAND LIST	None

*Note: All the RS-232 command will be not executed unless followed with a carriage return. All commands are case-sensitive*

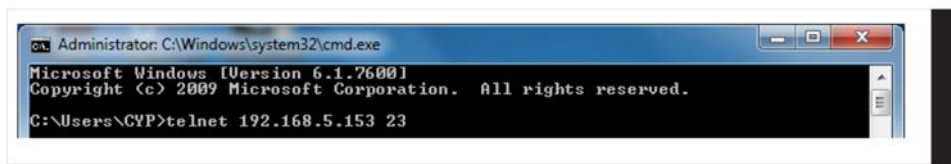
### 6.5 Telnet Control

To access the telnet control under MS windows, click 'Start' menu and type "cmd" in the search field then press enter.

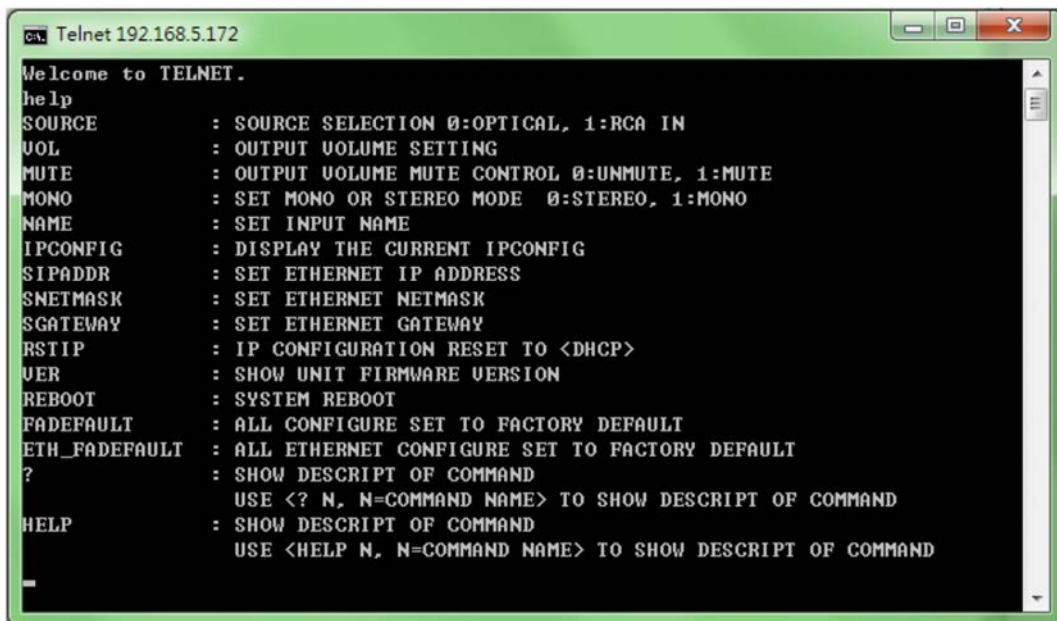
Under Mac OS X, go to Go > Application > Utilities > Terminal See below for reference.



Once in the command line interface (CLI) type "telnet", then the IP address, and hit enter.



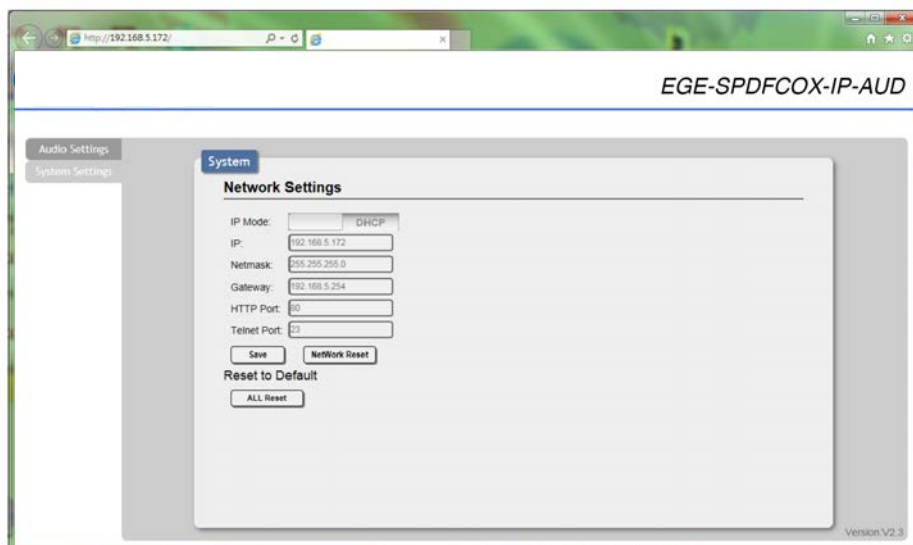
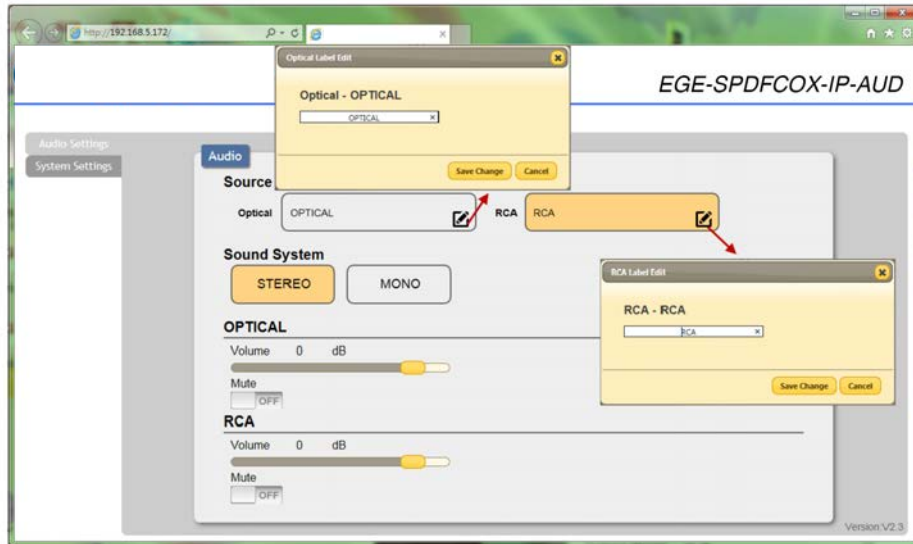
Press "Help" or "?" then hit enter to bring up all available commands.



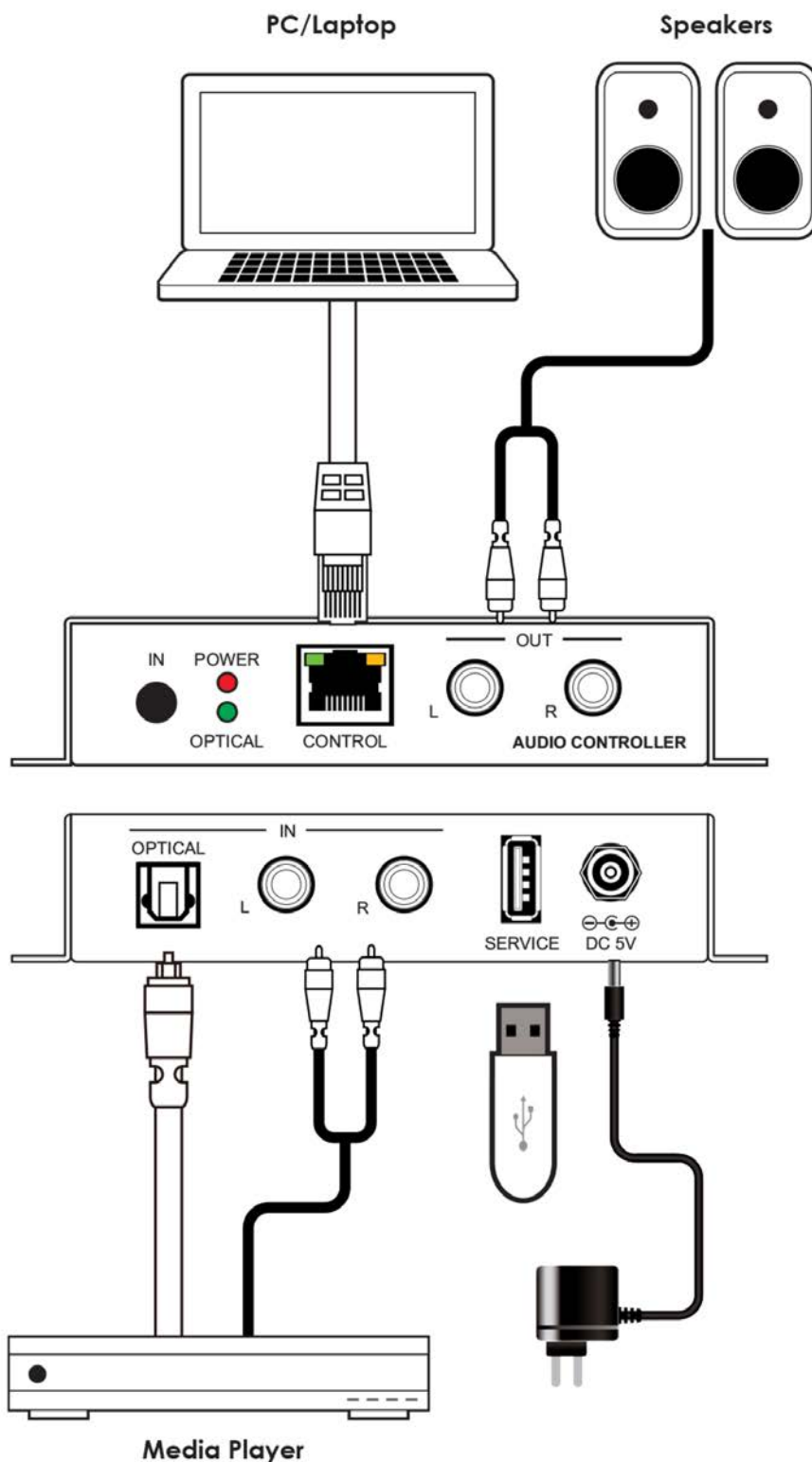
*Note: All the commands will be not executed unless followed by a carriage return. Commands are case-insensitive. If the IP is changed then the IP Address required for Telnet access will also change accordingly.*

### 6.6 WebGUI Control

On a PC/Laptop that is connected to an active network system, open a web browser and type device's IP address on the web address entry bar. The browser will display the device's Audio and System Settings for users to control.



**7. CONNECTION DIAGRAM**



**8. SPECIFICATIONS**

<b>Input Ports</b>	1 x RJ45(Control) 1 x L/R 1 x Optical 1 x USB(service)
<b>Output ports</b>	1 x L/R)
<b>Power Supply</b>	5VDC/2.6A (US/EU standards, CE/ FCC/ UL certified)
<b>ESD Protection</b>	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
<b>Chassis Material</b>	Metal
<b>Silkscreen Color</b>	Black
<b>Dimensions</b>	55mm (W) x82mm (D) x 22.5mm (H)
<b>Weight</b>	342g
<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)
<b>Power Consumption</b>	2 W

<b>Audio Specification</b>						
<b>Input</b>	<b>Output</b>	<b>Output Level</b>	<b>T.H.D+N (A-Weight)</b>	<b>Frequency Response</b>	<b>SNR</b>	<b>Crosstalk</b>
Optical 0dBFS 1kHz	L/R	2Vrms±10%	<0.01%	±1dBFS	>80dB	<-80dB
L/R 2Vrms 1kHz	L/R	2Vrms±10%	<0.01%	±1dBFS	>80dB	<-80dB





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