DCT-28

1×4 Optical Audio Splitter

Operation Manual

DISCLAIMERS

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

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

Cypress Technology 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 Cypress Technology.

© Copyright 2011 by Cypress Technology. All Rights Reserved.

Version 1.1 August 2011

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
VR0	25/02/14	Preliminary release
VS1	12/03/14	Updated text/diagrams

CONTENTS

1. Introduction 1
2. Applications 1
3. Package Contents 1
4. System Requirements 1
5. Features 1
6. Operation Controls and Functions 2
6.1 Top Panel 2
6.2 Left Panel 2
6.3 Right Panel 3
6.4 Rear Panel 3
7. Connection Diagram 4
8. Specifications 5
8.1 Technical Specifications 5
8.2 Audio Specifications 5
9. Acronyms 6

1. INTRODUCTION

The 1 by 4 Optical Audio Splitter can split and distribute a single optical digital audio input to up to four simultaneous optical digital outputs, allowing users to share one optical source to up to four optical sound systems. A simple and easy to use tool for distributing a single optical signal to multiple areas or devices.

2. APPLICATIONS

- Split a single optical digital input to four outputs
- Distribute an optical digital audio source to multiple AV Receivers

3. PACKAGE CONTENTS

- 1×1 by 4 Optical Audio Splitter
- 1×5V/1A Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

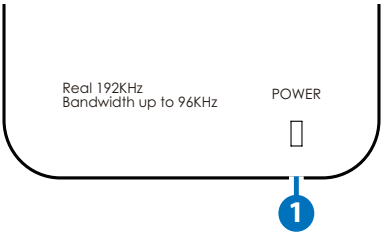
Source equipment such as a Blu-ray/DVD player and output to active speakers or sound systems.

5. FEATURES

- Supports one optical input and four optical outputs
- Supports LPCM 2CH audio signal and sampling rates up to 192kHz
- Supports Dolby Digital and DTS 2/5.1CH audio signals bypass
- Supports S/PDIF sampling rates of 32kHz to 192kHz
- Low power consumption

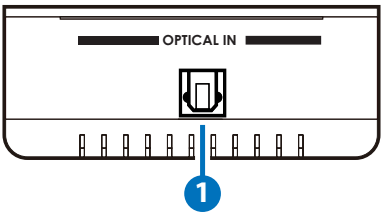
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Top Panel



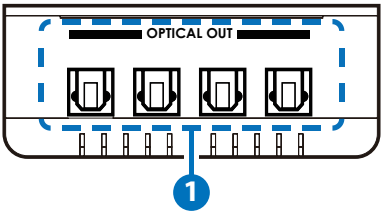
1 **POWER LED:** The LED will illuminate when the unit is connected to an active power supply.

6.2 Left Panel



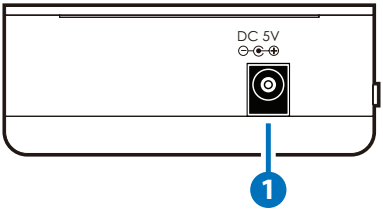
1 **OPTICAL IN:** Connect to the optical digital output of the source equipment such as a Blu-ray/DVD player, Set-top box or game console.

6.3 Right Panel



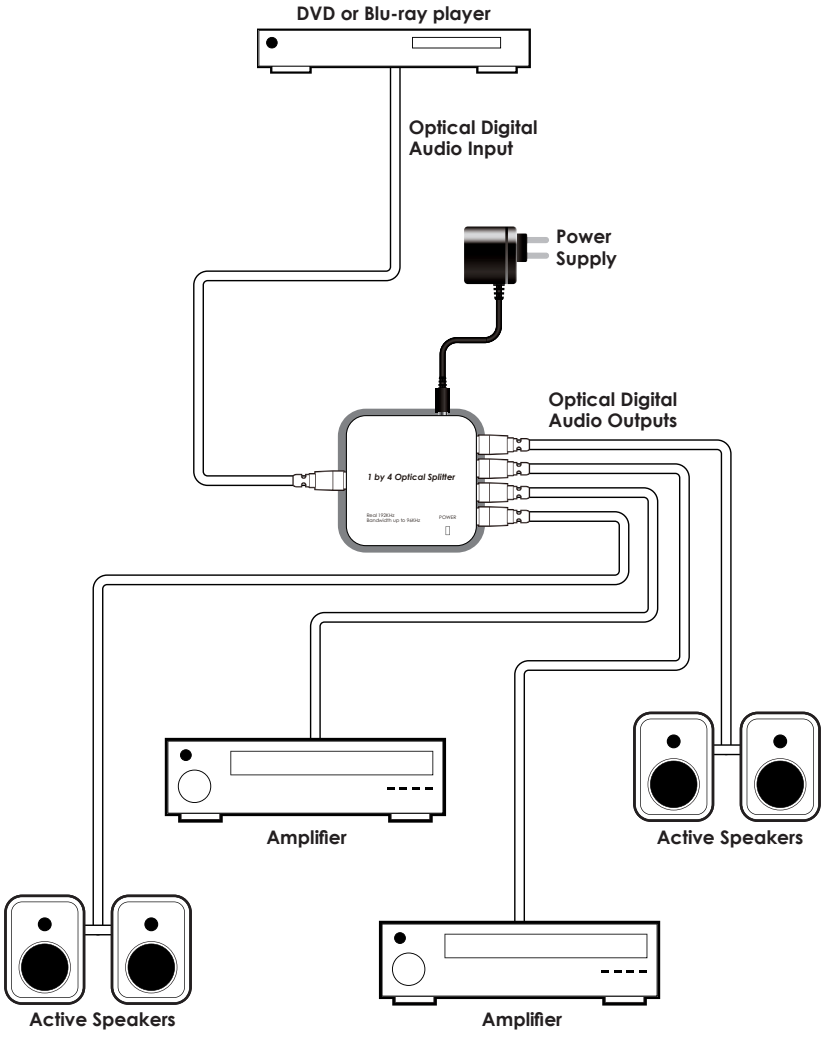
1 OPTICAL OUT: Connect to active speakers and or AV amplifiers with optical cable for audio output.

6.4 Rear Panel



1 DC 5V: Connect the 5V DC power supply to the unit and plug the adaptor into an AC wall outlet.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

Input Port	1×Optical (TOSLink connector)
Output Ports	4×Optical (TOSLink connectors)
Audio Sampling Rates	32~192kHz
Audio Formats	LPCM 2CH, Dolby Digital 2~5.1CH & DTS 2~5.1CH (Pass-through)
Power Supply	5V/1A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: 8kV (air-gap discharge) ±6kV (contact discharge)
Dimensions	85mm (W)×85mm (D)×34mm (H)
Weight	94g
Chassis Material	Plastic
Color	White
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)
Power Consumption	0.2W

8.2 Audio Specifications

Input Level/Freq.	Output	Output Level	THD+N	Frequency Response	SNR	Crosstalk
Optical 0dB	Optical	0~-1dB	<0.01 %	±1dBFS	>80dB	<-80dB

9. ACRONYMS

ACRONYM	COMPLETE TERM
DTS	Digital Theater Systems
LPCM	Linear Pulse Code Modulation
S/PDIF	Sony/Philips Digital Interconnect Format
TOSLink	Toshiba Link

CYPRESS TECHNOLOGY CO., LTD
Home page: http://www.cypress.com.tw

20130627 MPM-DCT28