



Instruction Manual

1T-AP-299
Dolby® Digital to Analog Audio Converter

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1.0 INTRODUCTION

Thanks for purchasing this 1T-AP-299 Dolby® Digital to Analog Audio Converter from tvONE. The 1T-AP-299 is a versatile tool that provides conversion capabilities between Optical, Coaxial and L/R Analog audio signals. The 1T-AP-299 has the ability to convert digital signals into analog and analog signals into digital format and also allows simultaneous conversion of audio formats. For example, when converting Optical digital signals into analog L/R audio you can also create a Coaxial format output from the same input audio source. If your requirements include supporting multiple audio formats, the Dolby® Digital to Analog Audio Converter provides the technology you need. tvONE offers a wide range of video, audio and multimedia products.

1.1 Liability Statement

Every effort has been made to ensure that this product is free of errors. tvONE cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

tvONE reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

All third party trademarks and copyrights are recognised. The tvONE logo and CORIO logo are the registered trademarks of tvONE. All other trademarks are the property of their respective holders.

1.2 Features

The 1T-AP-299 Dolby® Digital to Analog Audio Converter has many features that enable it to perform in a superior manner. Among those features you will find:

- Dolby® Digital Decoder
- Digital Interpolator Filter
- Digital to Analog Converter (DAC)
- Sampling Frequencies from 32 to 96KHz
- Analog, Optical & Coaxial I/O
- Very Easy to Configure and Operate
- Small Footprint
- Low Power Consumption

2.0 SPECIFICATIONS:

Signal Input	
Optical Audio Coaxial Audio L/R Analog Audio	1x Optical Connector 1x Coaxial (RCA) Audio Connector 2x RCA (L/R) Connectors
Signal Outputs	
Optical Audio Coaxial Audio L/R Analog Audio	1x Optical Connector 1x Coaxial (RCA) Audio Connector 2x RCA (L/R) Connectors
Performance	
Digital Sample Rate Coaxial, Optical Formats L/R Audio Format Analog Impedance Audio Bandwidth Digital Output Level Analog Output Level	32kHz to 96kHz LPCM 2.0, Dolby® Digital Stereo Analog Audio 47KΩ Input, 600Ω Output 20 Hz to 20 KHz 0dBFS 1.8Vrms +/-0.1V
SNR/Cross-Talk Digital Input	
Digital Output SNR Analog Output SNR Digital Output Crosstalk Analog Output Crosstalk	> 144dB w/Digital Input > 109dB w/Digital Input < -161dB w/Digital Input < -100dB w/Digital Input
SNR/Cross-Talk Analog Input	
Digital Output SNR Analog Output SNR Digital Output Crosstalk Analog Output Crosstalk	> 96dB w/Analog Input > 95dB w/Analog Input < -113dB w/Analog Input < -100dB w/Analog Input
Mechanical	
Size (H-W-D) Weight (Net)	35x97x85mm (1.3"x3.8"x3.4") 120g (4.23 oz.)
Warranty	
Limited Warranty	3 Years Parts and Labor
Environmental	
Operating Temperature Operating Humidity	0° to +40° C (+32° to +104° F) 20% to 90%, Non-condensing
Storage Temperature Storage Humidity	-20° to +60° C (+4° to +140° F) 20% to 90%, Non-condensing
Power Requirement	
External Power Supply	5VDC@1A
Regulatory Approvals	
Audio Extractor	FCC, CE, RoHS
Power Adapter	UL, CUL, CE, PSE, GS, RoHS
Accessories Included	
1x Power Adapter	US, UK or Euro
1x Operations Manual	

3.0 CHECKING PACKAGE CONTENTS

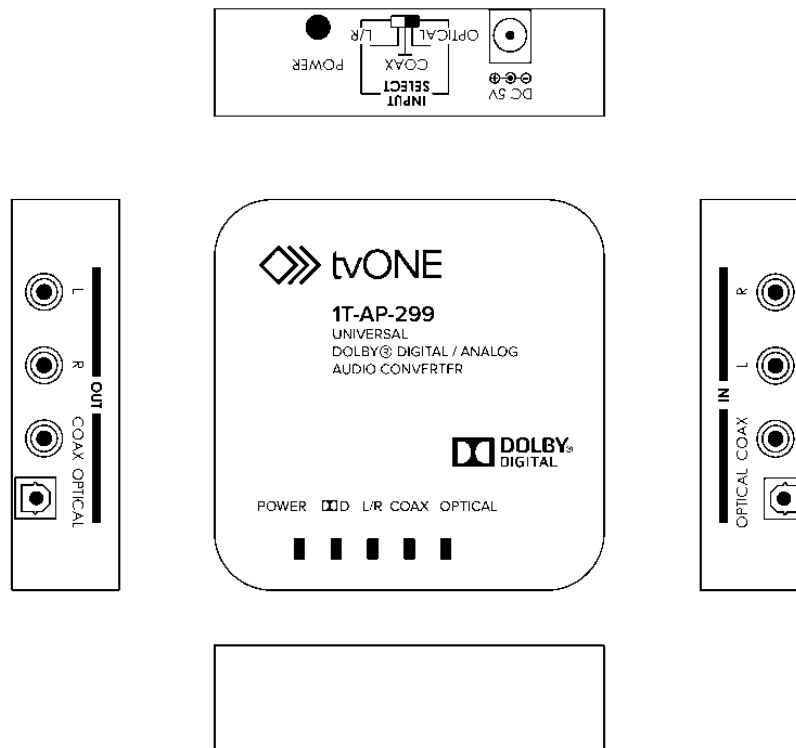
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x 1T-AP-299 Dolby® Digital to Analog Audio Converter
- 1x AC Adapter
- 1x Operation Manual

NOTE: Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

4.0 CONNECTING THE HARDWARE

Please study the panel drawings below and become familiar with the locations of the Signal Inputs, Outputs, Power connector and Input Select switch.



Connect the Output(s) from the source equipment to the appropriate Input connectors on the 1T-AP-299. Next, connect the 1T-AP-299's Optical, Coaxial and/or analog L and R outputs to the destination audio equipment. Set the Input Select Switch on the side of the 1T-AP-299 to the desired audio input mode (Optical, Coax or L/R).

Connect the AC adapter to the 1T-AP-299 and to a working AC power socket. Press the Power button on the side of the unit and then turn on the destination equipment and the source equipment.

5.0 OPERATING THE UNIT

Other than connecting power, connecting the cables to the source and destination equipment and making the desired audio Input type selection, there are no operator interventions required.

5.1 LED Mode Indicators



To assist you knowing that power is applied to the 1T-AP-299, which input selection has been made, and if Dolby® signal encoding is present, LED mode indicators are provided on the top of the device.

From left to right, the indicators show Power is present*, Dolby® Encoding is present, the Analog Input has been selected, the Coaxial Input has been selected or the Optical Input has been selected.

NOTE: If power is available to the unit but the power button has not been pressed, the power indicator will glow Red. When the button is pressed to turn on the device, the indicator will glow Green.

6.0 TROUBLESHOOTING

In the event that the unit appears to be non-functional, make certain that the AC power outlet is active for the source and destination equipment as well as the 1T-AP-299. Next, Make certain that the source and destination equipment is functioning properly. Lastly, substitute each cable in use with a known good cable to remove that variable.

After trying the above suggestions should the problem still persist, contact your dealer for additional suggestions before contacting tvONE. Should the dealer's technical personnel be unable to assist you, contact tvONE via our support website: <http://tvone.crmdesk.com>. Create a technical support request on the site and our support team will respond within a short period of time.

7.0 LIMITED WARRANTY

tvONE warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a fixed term from the date of purchase. The warranty term for specific product lines is defined below.

1. tvONE branded products based on tvONE's CORIO technology are warranted for a period of five years from the date of purchase. This includes products with the model number prefix of C2, 1T-C2, CX, A2 or S2.
2. tvONE products, other than those based on tvONE's CORIO technology mentioned above, are warranted for a period of three years from the date of purchase. This includes products with the model number prefix of 1T, with the exception of 1T-C2.
3. LCD Monitors are warranted for a period of three years from the date of purchase, with the exception of the LCD panels integrated into the monitors that are supplied by third parties. LCD panels are limited to the term and conditions of the warranty offered by the respective LCD panel manufacturer. Such specific LCD panel warranties are available upon request to tvONE.

Should a product, in tvONE's opinion, prove defective within this warranty period, tvONE, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of tvONE. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from tvONE and return the product to a location designated by tvONE, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to the stated number of years from the date of purchase. tvONE assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

tvONE makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of tvONE with respect to any defective products will be limited to the repair or replacement of such products. In no event shall tvONE be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

8.0 REGULATORY COMPLIANCE

The 1T-AP-299 Dolby® Digital to Analog Audio Converter has been tested for compliance with appropriate FCC and CE rules and regulations. The power adaptor/supply has been tested for compliance with appropriate UL, CUL, CE, PSE, GS Rules, regulations and/or guidelines. This product and power adapter is RoHS compliant.

9.0 CONTACT INFORMATION

Should you have questions or require assistance with this product in areas not covered by this manual, please contact tvONE at the appropriate location shown below.

tvONE USA

2791 Circleport Drive
Erlanger, KY 41018
USA
Tel 859-282-7303
Fax 859-282-8225
sales@tvone.com
www.tvone.com

tvONE Europe

Continental Approach
Westwood Industrial Estate
Margate, Kent CT9 4JG, UK
Tel +44 (0)1843 873311
Fax +44 (0)1843 873312
sales.europe@tvone.com

tvONE Latin America

6991 NW 82 Avenue #8
Miami, FL 33166
USA
Tel 305-396-6275
Fax 305-418-9306
sales.latinamerica@tvone.com

tvONE Mercosur

Av Diaz Velez 3965 PB
Capital Federal (1200)
Buenos Aires, Argentina
Tel +54 11 5917-2525
Fax +54 11 4032-0281
sales.mercosur@tvone.com

tvONE Asia

16F-4, No.75, Sec. 1
Xintai 5th Rd, Xizhi Dist
New Taipei City 22101
Taiwan R.O.C.
Tel +886 2 2698-2296
Fax +886 2 2698-2297
sales.asia@tvone.com

tvONE China

Rm. 1007 Golden Peach Building
No.1900 Shangcheng Road
Pudong, Shanghai
China 200120
Tel +86 21 5830-2960
Fax +86 21 5851-7949
sales.china@tvone.com

End of Manual