
Trends
Innovative HiFi Audio

Trends Audio UD-10.1
USB Audio Converter
Version 1.1
User Guide



Trends UD-10.1



Trends UD-10.1 Lite

Trends

Innovative HiFi Audio

Copyright Notice

Copyright © 2006 ITOK Media Limited, All rights reserved.

All rights in this publication are reserved and no part may be reproduced without the prior written permission of the publisher. The contents of this publication are believed to be correct at the time of going to press, but any information, specifications, products or services mentioned may be modified, supplemented or withdrawn without further notice.

Trademarks

Trends, Trends Audio, and ITOK are the trademarks owned by ITOK Media Limited

All other trademarks are the property of their respective owners.

ITOK

ITOK Media Limited (Trends Audio)

Address: Unit E, 13/F, World Tech Centre,
95 How Ming Street, Kwun Tong, Hong Kong

Phone: (852) 2304 0730 (9am-6pm, HKG Time)

Fax: (852) 2566-5740

Email: sales@TrendsAudio.com (Sales)

support@TrendsAudio.com (Support)

Web: <http://www.TrendsAudio.com>

Table Of Contents

TABLE OF CONTENTS	3
1. INTRODUCTION	4
2. FEATURES	4
3. OVERVIEW – TRENDS UD-10.1	5
4. OVERVIEW – TRENDS UD-10.1 LITE	6
5. SETUP	7
Connect your PC or Mac to your Hi-Fi system:.....	7
Connect your PC or Mac to your Hi-Fi systems DAC:.....	7
PC or Mac Headphone Amplifier:	7
6. ADVANCE USE	7
7. SPECIFICATION	8
8. HINTS & TIPS	9
9. TROUBLE SHOOTING	9
10. CONTACT	9
11. REGULATORY COMPLIANCE	10

1. Introduction

Thank you for purchasing a Trends UD-10.1 USB Audio Converter

We have two products including Trends UD-10.1 Lite USB Audio Converter and Trends UD-10.1 USB Audio Converter.

There are three main uses for the Trends UD-10.1 USB Audio Converter.

1. Connect your PC or Mac to your Hi-Fi system
2. Connect your PC or Mac to your Hi-Fi systems DAC(Digital to analog converter)
3. PC or Mac Headphone Amplifier

There are a lot of good quality audio DAC's(Digital to analog converter)on the market. But a good inexpensive audio source is still difficult to find. Trends Audio developed the Trends UD-10.1 USB Audio Converter as an external sound card. It has four digital outputs (optical x1, coaxial x2 (RCA & BNC), AES/EBU x1, Trends UD-10 only) and a headphone socket. It effectively isolates the interference from within the PC/Mac case, caused by high frequency data signals, the switching mode power supply and the fan motors.

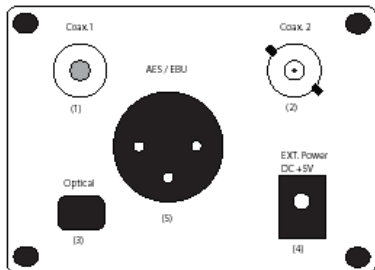
The Trends UD-10.1 USB Audio Converter upgrades your PC/Mac to be a hi-end audio source. Thanks to the high quality components and engineering the Trends UD-10.1 USB Audio Converter makes your PC/Mac into a high-end CD Player. Trends UD-10.1 USB Audio Converter and PC /Mac combination provides better sound quality, larger storage capacity and a more user-friendly interface than most standard CD players. The computer hard disk is far superior to a CD transport, no matter the speed, stability, error correction or jitter reduction.

2. Features

- To stream digital audio with extreme sound quality.
- High-end Burr Brown DAC PCM2704 for USB audio conversion.
- Proprietary dual power regulation circuits design(Trends UD-10.1 only)
- Separate power and ground paths for digital and analogue circuits.
- High accuracy crystal clock and SMD resistors and capacitors
- Proprietary impedance matching circuits for digital outputs
- Plug-and-play without driver installation for most operating systems, e.g. PC Windows OS, Mac OS and Linux.
- High quality components including Sanyo OS-CON solid-state electrolyte capacitors and ELNA Silmic electrolyte capacitors and WIMA MKP10 film capacitors

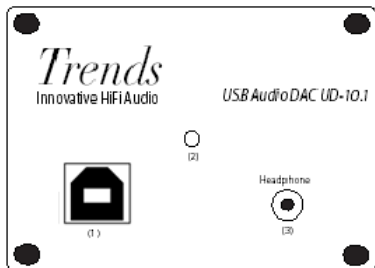
3. Overview – Trends UD-10.1

Back View



1. Coaxial (RCA)
2. Coaxial (BNC)
3. Optical
4. AES/EBU(XLR)
5. Power Supply Socket

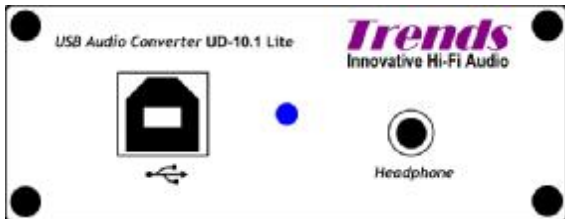
Front View



1. USB Socket
2. Power Indicator
3. Headphone Socket

4. Overview – Trends UD-10.1 Lite

Front View



1. USB Socket
2. Power Indicator
3. Headphone Socket

Back View



1. Optical
2. Coaxial RCA
3. Power Supply Socket

5. Setup

Plug-and-play without driver installation for most operating systems, e.g. PC Windows 2000, Windows XP, Vista and Mac OS X.

PC Users may need to select the Trends UD-10.1 USB Audio Converter as sound output device: Select - My Computer – Sound Devices – USB Audio DAC

MAC Users may need to select the Trends UD-10.1 USB Audio Converter as sound output device: Select – System Preferences – Hardware Sound – USB Audio DAC

Once set up the Trends UD-10.1 USB Audio Converter will interface with iTunes, Foobar2000, QuickTime Player, Windows Media Player, Real Player, etc.

Connect your PC or Mac to your Hi-Fi system:

PC/Mac USB port - USB socket on the front of Trends UD-10.1 USB Audio Converter - Headphone Socket Aux Input on amplifier / system. You can use an existing PHONO cable with the supplied mini-jack to PHONO adaptor or a mini-jack to PHONO cable.

Connect your PC or Mac to your Hi-Fi systems DAC:

PC/Mac USB port - USB socket on the front of Trends UD-10.1 USB Audio Converter - Select digital output on back of Trends UD-10.1 USB Audio Converter - Connect to digital input on DAC.

PC or Mac Headphone Amplifier:

PC/Mac USB port - USB socket on the front of Trends UD-10.1 USB Audio Converter - Headphone socket on front of Trends UD-10.1 USB Audio Converter

6. Advance Use

Battery Power: It is possible to power the Trends UD-10.1 USB Audio Converter with battery power for the best possible sound quality. Using the supplied battery box install four recharges AA batteries, 2000mAh or larger capacity recommended this will give you approximately 16hrs of playing time. Small capacity batteries are suitable but will need recharging more frequently.

Do Not Be Tempted to use ordinary AA batteries as this could cause irreparable damage. Rechargeable batteries (1.2V x4=5V). Normal batteries (1.5V x4=6V).

Mains Power: You can power the Trends UD-10.1 USB Audio Converter directly from the mains for improved sound quality and to reduce the current draw on the USB bus power; this will be an advantage when you are already using many USB peripherals. It is recommended that you use a 5V power supply with Centre Pin (+) 5.5mm Diameter, Pin 2.1mm

7. Specification

		UD-10.1	UD-10.1 Lite
Model	Burr Brown PCM2704 USB DAC (digital to analog converter)		
USB DAC IC	USB Type B Female connector x 1		
USB Input:	4 pin high accuracy crystal clock:		
Clock		±10 ppm Dual regulated power for analog & digital, paths, individually	±25 ppm Regulated power for both analog & digital paths
Power Regulation			
Digital Outputs:	Optical connector:TOSLINK Coaxial(RCA)connector:75 ohms Coaxial(BNC) connector:75 ohms AES/EBU(XLR)connector:110 ohms Audio format: linear PCM, 16 bits per sample Sample rates: 32, 44.1, 48 kHz	✓ ✓ ✓ ✓	✓ ✓ x x
Analog Output:	Headphone 3.5mm jack (Volume Controlled by PC or Mac) Signal-to-noise ratio 98dB, Dynamic Range: 98dB THD+N: 0.006% (RL > 10 k, Self-Powered)		
Audio Formats :	Lossless Formats: APE, FLAC, WMA Lossless, Apple lossless or other Uncompressed formats: WAV, AIFF, PCM or other Compressed formats: MP3,AAC,Ogg Vorbis,MP2,MusePack,WMA or other		
System Requirements:	All systems: 256MB RAM with 30MB hard disk space Windows OS: Windows NT/2000/XP/Vista or later Macintosh: Mac OS X 10.3 or later Linux, PC LinuxOS 2007, Fedora core 7, Ubuntu 7.04 or other USB Bus Power or External power(Optional): DC 4.35V – 5.25V(max) (e.g. AA size rechargeable battery 1.2V x4=5V, don't use normal batteries with 1.2V x4=6V, it would be too high for safety and good sound performance)		
Power Supply :			
Dimensions :			
Case only	(W)76mm x (H)46mm x (D)114mm	✓	x
Incl. sockets & knob	(W)76mm x (H)46mm x (D)128mm	✓	x
Case only	(W)76mm x (H)29mm x (D)114mm	x	✓
Incl. sockets & knob	(W)76mm x (H)29mm x (D)128mm	x	✓
Weight:		300g	250g
Case:	Stylish aluminium		
Accessories:	1.5m type A to type B cable x 1 Mini Jack to 2 Phono Sockets Adapter x 1 User Guide x 1 Warranty Card x 1		
Optional Accessories :			
Trends UD-10.1 Charger Kit:	The package includes charger, battery box and 4 AA size rechargeable battery (1.2V x4=5V), AC Input: Universal AC 100V-240V / 50-60Hz, DC Output: DC 5V /0.5A LED Indications: Power on, but no battery connected : Charging: Charged/Float Charging: Dimensions: (L)110mm x (W)80mm x (H)60mm Weight: 300g		Black Red Green
Warranty:	One year parts and labor.		
Regulatory Compliance:	CE FCC		

8. Hints & Tips

- Always power the Trends UD-10.1 USB Audio Converter before starting your media player.
- It's impossible to advise on the suitability of every media player, operating system, file type combinations, so for best results experiment
- Use battery power for a more open and spacious sound.

9. Trouble Shooting

Symptom	Solution
No power	Check battery pack is not flat & is switched on.
No sound	Check USB cable is connected Restart your media player
Sound is intermittent	Check battery pack it may need charging. Restart your media player
No Sound & No power	Check USB cable - battery pack - power supply
Volume very low	Check PC/Mac master volume & media players volume setting

10. Contact

ITOK Media Limited (Trends Audio)

Address: Unit E, 13/F, World Tech Centre,
95 How Ming Street, Kwun Tong, Hong Kong
Phone: (852) 2304 0730 (9am-6pm, HKG Time)
Fax: (852) 2566-5740
Email: sales@TrendsAudio.com (Sales)
support@TrendsAudio.com (Support)
Web: <http://www.TrendsAudio.com>

11. Regulatory Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. (3) Shielded USB cables must be used with this unit to ensure compliance with the Class B FCC limits

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.