

24-Bit, 192kHz Stereo D/A Converter

FEATURES

- \cdot Multiple audio data interface formats, up to 24-bit
- Automatically Detects Sample Rates up to 192kHz
- 105dB Dynamic Range
- ·-90dB THD+N
- Multi-bit Delta-Sigma Modulator
- · 3.3V Single Power Supply
- · Low Clock-Jitter Sensitivity
- · Filtered Line-Level Outputs
- · On-chip Digital De-emphasis
- Output pop-noise Minimization
- · Small 10-pin MSOP Package

APPLICATIONS

- Speakers · TV sets
- · DVD Player · Set top box
- Digital Photo Frame · DVD recorder
- · Home theater · Automotive audio system

■ DESCRIPTION

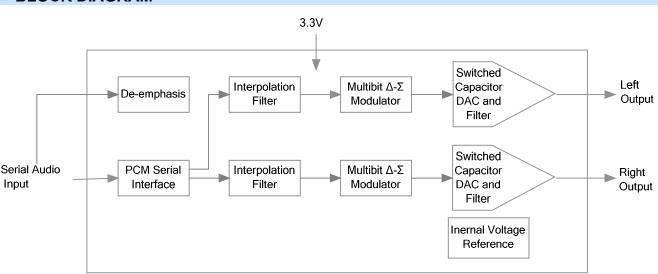
The HT5010/1/2 family is a low-cost stereo digital to analog converter, including interpolation, multibit D/A conversion and output analog filtering in a 10-pin package.

The device family can accept multiple audio formats up to 24-bit word length.

The device family is based on an advanced multi-bit Δ - Σ modulator to convert data into two channel analog outputs with a linear analog low-pass filter. The multi-bit Δ - Σ modulator makes the device with very low sensitivity to clock jitter and very low out-of-band noise. It also includes auto speed mode detection using both sample rate and master clock ratio as a method of auto-selecting sampling rates between 2 kHz and 200 kHz.

The device family contains on-chip digital deemphasis, operates from a single +3.3 V power supply, and requires minimal support circuitry. These features are ideal for DVD players & recorders, digital televisions, home theater and set top box products, and automotive audio systems.

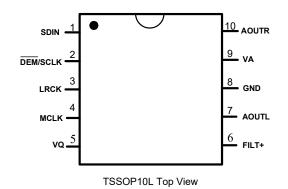
The device family is available in a 10-pin MSOP package.



BLOCK DIAGRAM



■ TERMINAL CONFIGURATION



■ TERMINAL FUNCTION

Terminal No.	NAME	I/O ¹	Description	
1	SDIN	I	Serial audio data input.	
2	DEM/SCLK	I	De-emphasis / external serial clock input	
3	LRCK	I	Left right clock	
4	MCLK		Master clock	
5	VQ	0	Filter connection for internal quiescent voltage	
6	FILT+	0	Positive reference voltage for the internal sampling	
7	AOUTL	0	Left channel analog output	
8	GND	G	Ground	
9	VA	Р	Analog power supply	
10	AOUTR	0	Right channel analog output	

ORDERING INFORMATION

Part Number	Data Format	Package Type	Marking	Operating Temperature Range	Container
HT5010	l ² S	MSOP-10	HT5010 UVWXYZ ²	-40℃~85℃	Tape and Reel
HT5011	Left Justified	MSOP-10	HT5011 UVWXYZ	-40°C∼85°C	Tape and Reel
HT5012	Right Justified	MSOP-10	HT5012 UVWXYZ	-40°C~85°C	Tape and Reel



IMPORTANT NOTICE 注意

Jiaxing Heroic Electronic Technology Co., Ltd (HT) reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any products or services. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete.

嘉兴禾润电子科技有限公司(以下简称HT)保留对产品、服务、文档的任何修改、更正、提高、改善和其他改变,或停止 提供任何产品和服务的权利。客户在下单和生产前应确保所得到的信息是最新、最完整的。

HT assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using HT components.

HT对相关应用的说明和协助以及客户产品的板级设计不承担任何责任。

HT products are not authorized for use in safety-critical applications (such as life support devices or systems) where a failure of the HT product would reasonably be expected to affect the safety or effectiveness of that devices or systems. HT的产品并未授权用于诸如生命维持设备等安全性极高的应用中。

The information included herein is believed to be accurate and reliable. However, HT assumes no responsibility for its use; nor for any infringement of patents or other rights of third parties which may result from its use.

本文中的相关信息是精确和可靠的,但HT并不对其负责,也不对任何可能的专利和第三方权利的侵害负责。

Following are URLs and contacts where you can obtain information or supports on any HT products and application solutions:

下面是可以联系到我公司的相关链接和联系方式:

嘉兴禾润电子科技有限公司

Jiaxing Heroic Electronic Technology Co., Ltd.

地址:浙江省嘉兴市凌公塘路3339号JRC大厦A座三层 Add: A 3rd floor, JRC Building, No. 3339, LingGongTang Road, Jiaxing, Zhejiang Province Sales: 0573-82585539, sales@heroic.com.cn Support:0573-82586151, support@heroic.com.cn Fax: 0573-82585078 Website: www.heroic.com.cn; wap.heroic.com.cn Wechat MP: HEROIC_JX 请及时关注禾润官方微信公众号,随时获取最新产品信息和技术资料!

