

AK5393生产时间AK4118还可以做数字发送用I2S转SPDIF光纤端子输出

产品名称	AK5393生产时间AK4118还可以做数字发送用I2S转SPDIF光纤端子输出
公司名称	深圳市彧龙电讯科技有限公司
价格	.00/个
规格参数	封装:LQFP 48 AK4118:光纤端子接收 AK4118:光纤端子发射
公司地址	深圳市宝安区西乡街道劳动社区西乡大道和宝源路交汇处中央大道C座18D
联系电话	18925217719

产品详情

AKM 产品 音频组件 数字音频接口

Digital Audio Interfaces

大多数情况用AK4118只是做数字接收使用，但实际上AK4118还可以做数字发送用（I2S转SPDIF）

输入信号：I2S（标准I2S）The AK410X/1X series is a 24-bit digital audio transmitters/transceivers/receivers. The channel status supports both consumer and professional formats and the AK410X/1X series has automatic detect function of Non-PCM data streams such as AC-3 and MPEG, capable to realize a AC-3 system with a multi-channeled CODEC. Dedicated parallel pins or serial P interface is available for setting the device. The AK410X/1X series is housed in a small package, saving board space.

Lineup

输出：一路同轴（spdif），一路光纤（spdif），一路I2S（标准i2S飞利浦格式）。I2S-

IN接口为I2S输入端口 (GND DATA BCK LRCK) .

I2S-OUT接口为一路I2S输出信号 (GND DATA BCK LRCK MCLK) .

平衡信号转单端信号转换_输入平衡信号 输出 RAC单端音频

Part NumberPart

StatusNumber of

Channels

(DIR)Number of

(DIT)BitsCOAX-OUT为同轴信号输出端口。OPT为光纤信号输出端口。AK4118-TX I2S转同轴光纤带I2S输出 高支持24 192 基于AK4118芯片.WM8805

[Bit]fs (MIN.)

[kHz]fs (TYP.)

[kHz]fs (MAX.)

[kHz]Digital Audio

IF RX MUXPower Supply

Voltage (MIN.)

[V]Power Supply

Voltage (TYP.)

Voltage (MAX.)

[V]Control

InterfaceOtherOperating

Temperature

[]Device

PackageNumber

of Pins

AK4103AVF MP 2 24 28 192 4.75 5.0 5.25 4-wire / HW Automotive grade -40 to 85 VSOP 24

AK4113VF MP 2 24 8 216 6:1 2.7 3.3 3.6 4-wire / IC / HW Automotive grade -40 to 85 VSOP 30

AK4104ET MP 2 24 8 192 2.7 3.3 3.6 4-wire -20 to 85 TSSOP 16

AK4118AEQ MP 2 2 24 8 192 8:1 2.7 3.3 3.6 4-wire / IC / HW -10 to 70 LQFP 48

AKM ' s audio D/A converters (DACs) provide solutions for high quality audio system with the original digital-analog mixing technology.

They are used in variety of applications such as AV receivers, set-top boxes, speaker systems, digital TVs and car-entertainment systems, contributing to the sound quality and power consumption improvements and reducing external parts.同轴光纤AES的信号锁定以后可显示当前采样率！板子带断电记忆功能，下次通电会自动选择上次使用的通道！同轴、光纤、AES支持的信号范围：16-24bit 32-192K采样率！一路光纤加一路同轴输入（同轴或光纤）。支持16-24bit，32K-192K采样率SPDIF信号DAC芯片采用CS4398，Cirrus logic动态达到120DB，失真加噪声极低-107DB，远超过一些低端的TDA1543类的DAC，也比PCM1793的指标为，是AD1955，AK4399同级别的DAC。

ChannelsAnalog

Output

TypeBits

[bit]THD+N

[dB]S/N

[dB]Power Supply

[V]2Vrms Line

DriverHeadphone

AmplifierOtherOperating

AK4432VT MP 2 Single 32 -91 108 3.0 3.3 3.6 VELVETSOUND, Automotive grade -40 to 105 TSSOP 16

AK4377ECB MP 2 Single 32 -109 128 1.7 1.8 1.9 Yes VELVETSOUND -40 to 85 WLCSP 36

AK4377AECB MP 2 Single 32 -107 125 1.7 1.8 1.9 Yes VELVETSOUND -40 to 85 WLCSP 36

AK4490EN MP 2 Differential 32 -112 120 (123*) 4.75 / 3.0 5.0 / 3.3 5.25 / 3.6 VELVETSOUND -40 to 85 HVQFN 48

AK4498EQ NEW 2 Differential 6 -116 128 4.75 / 3.0 / 1.7 5.0 / 3.3 / 1.8 5.25 / 3.6 / 1.98 VELVETSOUND -40 to 85 HTQFP 64

AK4430ET MP 2 Single 24 -91 104 3.0 3.3 3.6 Yes Ground-referenced output -20 to 85 TSSOP 16

AK4495SEQ MP 2 Differential 32 -101 123/120 4.75 / 3.0 5.0 / 3.3 7.2 / 3.6 VELVETSOUND -40 to 85 LQFP 44

AK4490EQ MP 2 Differential 32 -112 120 (123*) 4.75 / 3.0 5.0 / 3.3 7.2 / 3.6 VELVETSOUND -40 to 85 LQFP 48

AK4436VN MP 6 Single 32 -91 108 3.0 3.3 3.6 VELVETSOUND, Automotive grade -40 to 105 HWQFN 32

AK4493EQ MP 2 Differential 32 -113 123 (126*) 4.75 / 3.0 / 1.7 5.0 / 3.3 / 1.8 5.25 / 3.6 / 1.98 VELVETSOUND -40 to 85 LQFP 48

AK4454VN MP 4 Differential 32 -107 115 / 111 3.0 / 3.0 5.0 / 3.3 5.5 / 3.6 VELVETSOUND, Automotive grade -40 to 105 HWQFN 32

AK4331ECB MP 2 Single 32 -100 109 1.7 1.8 1.9 Yes SRC , VELVETSOUND -40 to 85 WLCSP 36

AK4458VN MP 8 Differential 32 -107 115 / 111 3.0 / 3.0 5.0 / 3.3 5.5 / 3.6 VELVETSOUND, Automotive grade -40 to 105 HVQFN 48

AK4497EQ MP 2 Differential 32 -116 128 (131*) 4.75 / 3.0 / 1.7 5.0 / 3.3 / 1.8 5.25 / 3.6 / 1.98 VELVETSOUND -40 to 85 HTQFP 64

AK4495EQ MP 2 Differential 32 -101 123 / 120 4.75 / 3.0 5.0 / 3.3 7.2 / 3.6 VELVETSOUND -40 to 85 LQFP 44

AK4499EQ MP 4 Differential 32 -124 134 (140*) 4.75 / 3.

Input

[bit]Max fs

[kHz]THD+N

[V]PLLMicrophone

AK5536VN MP 6 Differential 32 768 -103 111(118*) 3.0 3.3 3.6 VELVETSOUND, Automotive grade -40 to 105 HVQFN 64

AK5552VN MP 2 Differential 32 768 -106 115(118*) 4.5 5.0 5.5 VELVETSOUND, Automotive grade -40 to 105 HVQFN 48

AK5730VQ MP 4 Single / Differential 24 48 -92 100 3.0 3.3 3.6 Yes Mic-diagnostics, Cascade TDM I/F, Automotive grade -40 to 105 LQFP 48

AK5706ECB NEW 2 Single / Differential 24 192 -90 105 1.7 / 3.0 1.8 / 3.3 1.9 / 3.6 Yes Yes AAA, Audio buffer, Cascade TDM I / F -40 to 85 WLCSP 32

AK5736VN MP 6 Differential / Single 24 192 -92 100 3.0 3.3 3.6 Yes Mic-diagnostics, Cascade TDM I/F, Automotive grade -40 to 105 HVQFN 48

AK5574EN MP 4 Differential 32 768 -112 121 (127*) 4.75 5.00 5.25 VELVETSOUND -40 to 85 HVQFN 48

AK5720VT MP 2 Single 24 96 -94 102 2.7 3.0 or 5.0 5.5 Yes Cascade TDM I / F, Automotive grade -40 to 105 TSSOP 16

AK5704EN MP 4 Single / Differential 32 192 -90 105 1.7 / 3.0 1.8 / 3.3 1.9 / 3.6 Yes Yes VAD, ALC, Cascade TDM I/F -40 to 85 HWQFN 28

AK5556VN MP 6 Differential 32 768 -106 115 (122*) 4.5 5.0 5.5 VELVETSOUND, Automotive grade -40 to 105 HVQFN 64

AK5534VN MP 4 Differential 32 768 -103 111 (117*) 3.0 3.3 3.6 VELVETSOUND, Automotive grade -40 to 105 HVQFN 48

AK5558VN MP 8 Differential 32 768 -106 115 (124*) 4.5 5.0 5.5 VELVETSOUND, Automotive grade -40 to 105 HVQFN 64

AK5538VN MP 8 Differential 32 768 -103 111 (120*) 3.0 3.3 3.6 VELVETSOUND, Automotive grade -40 to 105 HVQFN 64

AK5578EN MP 8 Differential 32 768 -112 121 (130*) 4.75 5.00 5.25 VELVETSOUND -40 to 105 HVQFN 64

AK5522VN MP 2 Single/Differential 32 192 -98 108 4.5/3.0 5.0/3.3 5.5/3.6 Yes Yes VELVETSOUND, Automotive grade -40

AKM 产品 音频组件 音频编解码器

Audio CODECs

(AD)Number of

(DA)Bits

[bit]S/N (AD)

[dB]S/N (DA)

[dB]THD (AD)

[dB]THD (DA)

[V]Microphone

AmplifierSpeaker

AK4627VQ MP 4 6 24 102 106 -92 -90 4.5 5.0 5.5 Automotive grade -40 to 105 LQFP 48

AK4637EN MP 1 1 24 95 94 -84 -85 2.8 3.3 5.5 Yes Monaural SPK-Amp: 1W Output -40 to 85 HWQFN 20

AK4621EF MP 2 2 24 115 115 -102 -100 4.75 / 3.0 5.0 / 3.3 5.25 / 3.6 -10 to 70 VSOP 30

AK4637VN MP 1 1 24 95 94 -84 -85 2.8 3.3 5.5 Yes Monaural SPK-Amp: 1W Output, Automotive grade -40 to 85 HWQFN 20

AK4616VQ MP 3 5 24 99 105 -88 -95 3.0 / 1.7 3.3 / 1.8 3.6 / 1.9 Yes Automotive grade -20 to 85 LQFP 48

AK4558EN MP 2 2 32 10 108 -92 -100 2.4 3.3 3.6 PLL VELVETSOUND -40 to 105 HWQFN 28

AK4556VT MP 2 2 24 103 106 -91 -90 2.7 3.0 3.6 Automotive grade -40 to 85 TSSOP 20

AK4695ECB MP 4 4 24 103 95 -93 -87 2.7 / 1.6 2.8 / 1.8 3.5 / 2.0 Yes Monaural -30 to 85 WLCSP 42

AK4958EG MP 2 2 24 96 92 -85 -85 2.8 / 1.6 3.3 / 1.8 3.6 / 2.0 Yes Monaural Auto Wind Noise Cut -30 to 85 VBGA 32

AK4634EN MP 1 1 16 89 93 -84 -85 2.2 3.3 3.6 Yes Monaural -30 to 85 HWQFN 32

AK4940VN MP 1 1 24 90 90 -80 -80 3 3.6 Yes Analog Direct Path, Automotive grade -40 to 105 HWQFN 24

AK4628AVQ MP 2 8 24 102 106 -92 -90 4.5 5.0 5.5 Automotive grade -40 to 85 LQFP 44

AK4954AEN MP 2 2 32 100 100 -88 -80 2.5 3.3 3.5 Yes Monaural -30 to 85 HWQFN 32

AK4613VQ MP 4 12 24 104 108 -97 -100 3.0 / 1.6 3.3 / 1.8 3.6 / 2.0 Automotive grade -40 to 105 LQFP 80

AK4951AEN MP 2 2 24 96 97 -85 -85 2.8 3.3 3.5 Yes Monaural Auto Wind Noise Cut, SPK-Amp: 1W Output -40 to 85 HWQFN 32

AK4953AEN MP 2 2 24 96 96 -85 -80 2.85 3.3 3.5 Yes Monaural -30 to 85 HWQFN 36

AK4957EN MP 2 2 24 96 92 -85 -85 2.8 / 1.6 3.3 / 1.8 3.6 / 2.0 Yes Monaural -30 to 85 HWQFN

32

AK4633VN MP 1 1 16 85 93 -84 -85 2.2 3.3 3.6 Yes Monaural Automotive grade -40 to 85 HWQFN 24

AK4678ECB MP 2 2 24 92 92 -80 -80 1.7 1.8 2.0 Yes Monaural SPK-Amp: 1W Output -30 to 85 WLCSP 49

AK4528VM MP 2 2 24 108 110 -94 -94 4.75 5.0 5.25 -40 to 85 SSOP 28

2020/07/21

AKM develops ultra-low power intelligent system wakeup ADC with integrated Acoustic Activity Analyzer consuming only 30 μ A

2020/06/02

AKM releases AK8781, the smallest ever latch-type Hall IC with 60% smaller package size than its conventional product

2020/05/26

AKM releases 5.9GHz transceiver IC with IF filter and power amplifier for supporting Japanese ETC2.0/ETC system

2020/05/13

AKM releases compact and premium D/A converter using audio-optimized LSI manufacturing process

2020/03/25

AKM releases low latency 4ch A/D converter for automotive ANCs