
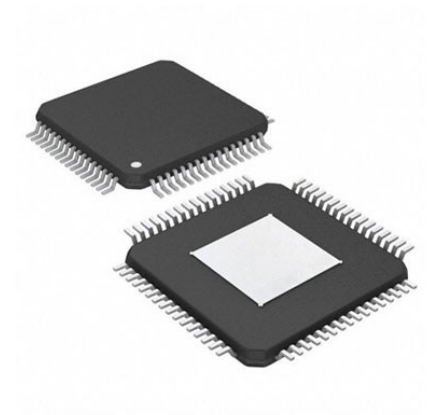


Audio Processor Bass/Treble 64-Pin LQFP EP

Manufacturer:	STMicroelectronics, Inc
Package/Case:	TQFP64
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Obsolete



Images are for reference only

[Inquiry](#)

General Description

The STA321 is a single chip solution for digital audio processing applications of up to 4.0 channels. The STA321 is part of the Sound Terminal family that together with the digital power stage provides full digital audio streaming to the speaker, offering cost effectiveness, low energy dissipation and sound enrichment. The STA321 input section consists of two multiplexed stereo analog inputs, a 16-bit ADC and two independent digital input interfaces. The serial audio data input interface accepts all possible formats, including the popular I2S format. There is also a digital output interface fed by the ADC or by the digitally processed signals.

Key Features

Embedded CMOS bridge: up to 0.5 W/channel

Output configurations: 2.0, 2.14, 0 Mono

Play and record simultaneous operation

pfStart™ for pop-free single-ended operations

Individual channel and master gain/attenuation

Pre and post mix stages

Soft volume update and muting

Digital gain/attenuation -105 dB to +36 dB in 0.5-dB steps

DC-blocking selectable high-pass filter

Up to 13 28-bit user programmable biquads (EQ) per channel

Selectable de-emphasis filter

Ternary, binary or phase shift modulation

Bass/treble tone control

Headphone output with jack detector

PWM output

I2C control.

Four channels of 24-bit audio processing

4-channel input sample rate converter (8 kHz to 192 kHz)

High efficiency FFX™ class-D modulator

Two stereo channels with I2S input/output data interface

100-dB dynamic range

Analog and digital muxing/mixing capability

Flexible channel mapping and routing

16-bit stereo ADC input with PGA and microphone biasing

Recommended For You

STA540

STMicroelectronics, Inc
ZIP15

STA339BWTR

STMicroelectronics, Inc
SSOP36

STA559BW

STMicroelectronics, Inc
SSOP36

STPA003OD-4WX

STMicroelectronics, Inc
144-LQFP

STA309A13TR

STMicroelectronics, Inc
QFP64

STA120D

STMicroelectronics, Inc
SOP28

STA308

STMicroelectronics, Inc
QFP

STA333W

STMicroelectronics, Inc
SSOP36

STA516B13TR

STMicroelectronics, Inc
HSSOP36

STABP01D

STMicroelectronics, Inc
SOP20

STA333ML

STMicroelectronics, Inc
SSOP36

STA333BW

STMicroelectronics, Inc
SSOP36

STA304A

STMicroelectronics, Inc
QFP

STA333IS

STMicroelectronics, Inc
CSP-30

STABP01

STMicroelectronics, Inc
DIP