
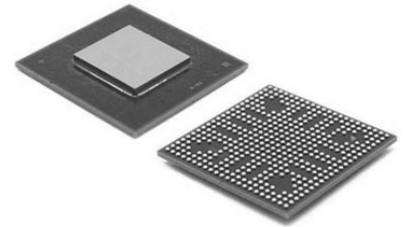


**Audio Processor Bass 30-Pin CSP**

<b>Manufacturer:</b>	<a href="#">STMicroelectronics, Inc</a>
<b>Package/Case:</b>	CSP-30
<b>Product Type:</b>	Embedded Processors & Controllers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)**General Description**

The STA333IS is an integrated circuit comprising digital audio processing, digital amplifier control and an FFX™ power output stage to create a high-power, single-chip FFX solution for all-digital amplification with high quality and high efficiency. The STA333IS power section consists of four independent half-bridge stages. Two channels can be provided by two full bridges, delivering up to 10 W + 10 W of power. Also featured in the STA333IS are new advanced modes for reducing AM radio interference. The serial audio data input interface accepts all possible formats, including the popular I2S format. Two channels of FFX™ processing are provided. The STA333IS is part of the Sound Terminal® family that provides full digital audio streaming to the speaker, offering cost effectiveness, low-power dissipation and sound enrichment.

## Key Features

Wide-range supply voltage (4.5 V - 20 V)

2 channels of ternary PWM (stereo mode)

2 channels of 24-bit FFX™

100 dB SNR and dynamic range

Selectable 32- to 192-kHz input sampling rates

Digital gain -80 dB to +48 dB in 0.5 dB steps

Software volume update

Individual channel and master gain/attenuation

Individual channel and master software and hardware mute

Independent channel volume bypass

Automatic zero-detect mute

Automatic invalid input detect mute

Short-circuit detection at startup (Out-Vcc, Out-Gnd, Out 1b-Out 2a)

2-channel I2S input data interface

2 Hz DC cut filter (input)

Input channel mapping

Automatic volume control for limiting maximum power

96 kHz internal processing sampling rate, 24-bit precision

Advanced modes for AM interference frequency switching and noise suppression

Embedded thermal-overload and short-circuit protection

Video application: 576 \* fSinput mode support

## Recommended For You

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### 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

**STA321**

STMicroelectronics, Inc  
TQFP64

**STA304A**

STMicroelectronics, Inc  
QFP

**STABP01**

STMicroelectronics, Inc  
DIP