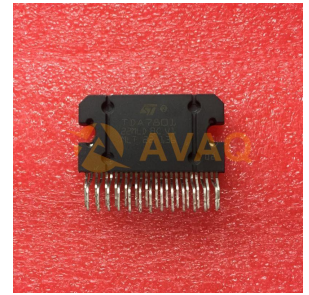


Audio Amp Speaker 4-CH Stereo 49W Class-AB Automotive 27-Pin(27+Tab) FLEXIWATT(Vertical) Tube



Images are for reference only

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: ZIP27

Product Type: Amplifier ICs

Lifecycle: Active

[Inquiry](#)

General Description

The TDA7801 is a new BCD technology quad bridge amplifier for car audio applications. Thanks to the BCD6 technology it is possible to integrate a high performance D/A converter together with powerful MOSFET outputs. The possibility of having the D/A conversion on board allows the performance to reach an outstanding 115 dB S/N ratio with more than 105 dB of dynamic range. This device is equipped with a full diagnostics array that communicates the status of each speaker through the I2C bus. The possibility to control the configuration and behavior of the device by means of the I2C bus makes TDA7801 a very flexible machine.

Key Features

Integrated 110 dB D/A conversion

I2S digital input (3.3/1.8 V) with TDM option

Selectable input sampling frequency: 44.1 kHz, 48 kHz, 96 kHz, 192 kHz

MOSFET power outputs

High output power capability 4x28 W/ 4 Ω @ 14.4 V, 1 kHz, 10 % THD

Max. output power 4x72 W/2 Ω

Full I2C bus driving (3.3/5 V):

Independent front/rear soft play/ mute

Selectable gain (four levels) for very low noise line-out function

I2C bus digital diagnostics (including DC and AC load detection)

Independent front/rear soft play/ mute

Selectable gain (four levels) for very low noise line-out function

I2C bus digital diagnostics (including DC and AC load detection)

Two I2C bus addresses and 8-ch TDM mode (only in PowerSO package)

Optional non I2C bus mode

Offset detector (play or mute mode)

Clipping detector (selectable level) and diagnostics pin

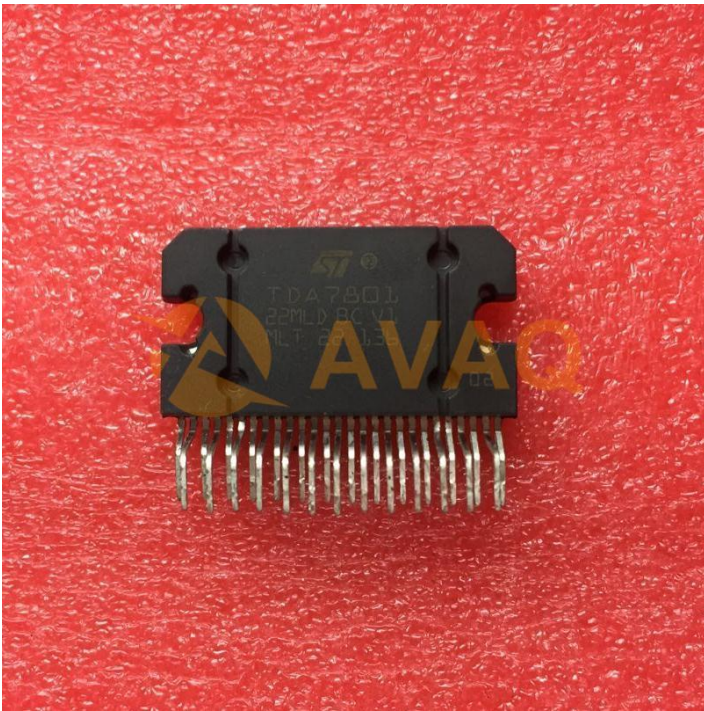
CMOS compatible enable pin (3.3/5 V)

Full fault protection

Four independent short circuit protections

Linear thermal protection (four thermal warnings)

ESD protection



Recommended For You

TDA7387EP

STMicroelectronics, Inc

ZIP25

TDA7562

STMicroelectronics, Inc

ZIP27

TDA7296

STMicroelectronics, Inc

ZIP-15

TDA7419

STMicroelectronics, Inc

SOP28

TDA7561

STMicroelectronics, Inc

ZIP

TDA7575B

STMicroelectronics, Inc

ZIP27

TDA7376B

STMicroelectronics, Inc

ZIP-15

TDA7851L

STMicroelectronics, Inc

ZIP-25

TDA7417

STMicroelectronics, Inc

QFP

TDA2005R

STMicroelectronics, Inc

ZIP

TDA7388A

STMicroelectronics, Inc

ZIP-27

TDA7850A

STMicroelectronics, Inc

ZIP27

TDA7563ASM

STMicroelectronics, Inc

ZIP-27

TDA75610LV

STMicroelectronics, Inc

ZIP27

TDA7562B

STMicroelectronics, Inc

ZIP27