

NAU82028 3.1W Mono Filter-Free Class-D Audio Amplifier with 2-wire interface gain control

1 Description

The NAU82028 is a mono high efficiency filter-free Class-D audio amplifier, which is capable of driving a 4Ω load with up to 3.1W output power. This device provides clip enable pin with extremely low standby current and fast start-up time of 3.4ms. The NAU82028 features a highly flexible 2-wire interface with many useful gain settings. The gain can be selected from 12dB to -20.5dB (plus mute) by using 2-wire interface.

The NAU82028 is ideal for the portable applications of battery drive, as it has advanced features like 93% efficiency, ultra low quiescent current (i.e. 2.0mA at 3.6V) and superior EMI performance. It has the ability to configure the inputs in either single-ended or differential mode.

NAU82028 is available in Miniature WCSP-9 (1.56mm x 1.52mm in 0.5mm pitch) package.

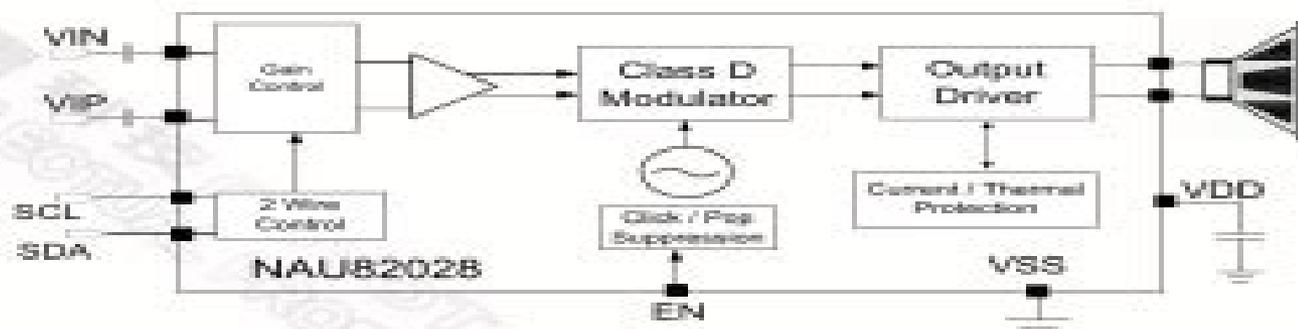
Key Features

- Low Quiescent Current:
 - 2.0mA at 3.6V
 - 3.1mA at 5V
- Gain Setting with 2-wire interface
 - 12dB to -19.5dB (plus mute)
- Powerful Mono Class-D Amplifier:

<ul style="list-style-type: none"> - 3.1W (4Ω @ 5V, 10% THD+N) - 2.86W (4Ω @ 5V, 1% THD+N) - 1.77W (8Ω @ 5V, 10% THD+N) - 1.41W (8Ω @ 5V, 1% THD+N) 	<ul style="list-style-type: none"> - 1.54 W (4Ω @ 3.6V, 10% THD+N) - 1.26 W (4Ω @ 3.6V, 1% THD+N) - 0.9 W (8Ω @ 3.6V, 10% THD+N) - 0.76 W (8Ω @ 3.6V, 1% THD+N)
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- Low Output Noise: 26 μ V_{rms} (A-Weighted @3.6V)
- Low Current Shutdown Mode
- Click-and-Pop Suppression
- 1.56mm x 1.52mm in WCSP (0.5mm Pitch)

Applications

- Smartphones
- Tablet PCs
- Personal Navigation Devices



Data Sheet Nuvoton

Travis Goodspeed



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