

**Features**

- Output power:
  - 2.5W/Ch with 4Ω loader at  $V_{DD}=5V$
  - 1.5W/Ch with 8Ω loader at  $V_{DD}=5V$
- Low supply current (Typical 5.4mA quiescent current)
- Low shutdown current (Typical 0.4μA shutdown current)
- Thermal protection and output over current protection are designed
- Optimized PWM output stage eliminates LC output filter
- Independent shutdown control for each channel
- Select gain of 6, 12, 18, 24 dB
- Internally generated 300-kHz switching frequency eliminates capacitor and resistor
- Internal pull-down resistor on shutdown terminal

**General Description**

The AS9912 is a 2.5-W high efficiency, stereo, filter-free class-D audio power amplifier in QFN20 package that requires only two external components.

Features like 88% efficiency, improved RF-rectification immunity make the AS9912 ideal for cellular handsets. In cellular handsets, the earpiece, speaker phone, and melody ringer can each be driven by the AS9912.

**Applications**

- Mobile phone、PDA
- MP3/4、PMP
- Portable electronic devices
- USB Speakers
- Educational toys
- Notebook PC

**Order Information**

Part Number	Package	Shipping
AS9912Q/TR-LF	QFN-20, RoHs	3000 pcs / Tape & Reel
AS9912Q/TR-HF	QFN-20, Halogen-Free	3000 pcs / Tape & Reel