

**ON Semiconductor®**



Part Number: ONA10IVGEVB

**Description:** 16 Watt Digital Input Class-D Audio Amplifier with Speaker Sense Digital Output Eval Board

The ONA10IV is a digital input, mono Class-D audio amplifier with real time, integrated current and voltage sensing of the loudspeaker it's driving. This sense data is transmitted to the host via a dedicated digital output. The ONA10IV can be directly connected to a 2-cell (2S) or 3-cell (3S) battery and offers a fast automatic gain control (AGC) for brownout protection that can react within 10[1] $\mu$ s. A separate single-wire bus (MAGC) can be used to automatically synchronize gain changes across multiple ONA10IV instantiations during a brownout protection event. Device-configurable I2C slave addressing allows up to eight devices to share the same digital audio interface bus.

