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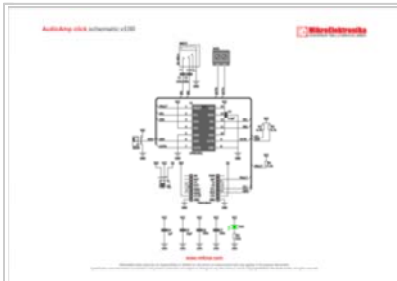


AudioAmp click

From MikroElektronika Documentation

AudioAmp click functions as a mono audio amplifier. It is driven by a Texas Instruments LM48100Q-Q1 Boomer™ Mono, 1.3W Audio Power Amplifier IC.

Features and usage notes



Schematic also available in PDF (http://cdn-docs.mikroe.com/images/0/0d/AudioAmp_click_sche

address as well. The open-drain output fault flag, FAULT is routed through the default mikroBUS™ INT pin (0 indicates that a fault condition has occurred). Here's a comprehensive list of LM48100Q's key features, taken from the official data sheet:

- Output Fault Detection
- I2C Volume and Mode Control
- Input Mixer and Multiplexer
- High PSRR
- Individual 32-Step Volume Control
- Short Circuit and Thermal Protection
- Advanced Click-and-Pop Suppression
- Low-Power Shutdown Mode
- Available in 14-Pin HTSSOP Package
- Key Specifications:
 - OutputPower at VDD =5V, RL =8Ω, THD+N ≤ 1% 1.3 W (Typical)
 - Quiescent Power Supply Current at 5 V, 6 mA (Typical)
 - PSRR at 1 kHz 74 dB (Typical)
 - Shutdown current 0.01 μA (Typical)

Programming

The following code snippet demonstrates the click's power on procedure

```

1 void power_on()
2 {
3     I2C2_Start();
4     I2C2_Write( dev_addr );
5     I2C2_Write( POWER_ON );
6     I2C2_Stop();
7 }

```

Code examples that demonstrate the usage of AudioAmp click with MikroElektronika hardware, written for mikroC for AVR, dsPIC, PIC and PIC32 are available on Libstock (<http://libstock.mikroe.com/projects/view/1871/audioamp-click>).

Resources

- Libstock example (<http://libstock.mikroe.com/projects/view/1871/audioamp-click>)
- LM48100Q-Q vendor's data sheet (<http://www.ti.com/product/LM48100Q-Q1>)
- mikroBUS™ specifications (http://www.mikroe.com/downloads/get/1737/mikrobus_specification.pdf)

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AudioAmp click



AudioAmp click

IC/Module	KN48100Q-Q1 (http://www.ti.com/product/LM48100Q-Q1)
Interface	I2C
Power supply	3.3V, 5V
Website	www.mikroe.com/click/audio-amp (http://www.mikroe.com/click/audio-amp)

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