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GY-MAX4466 Electret Microphone Amplifier with Adjustable Gain for Arduino



Description:

Add an ear to your project with this well-designed electret microphone amplifier. This fully assembled and tested board comes with a 20-20KHz electret microphone soldered on. This breakout is best used for projects such as voice changers, audio recordingmpling, and audio-reactive projects that use FFT. On the back, we include a small trimmer pot to adjust the gain. Using it is simple: connect GND to ground, VCC to 2.4-5VDC. The output pin is not designed to drive speakers or anything but the smallest in-ear headphones - you'll need an audio amplifier (such as our 3.7W stereo amp) if you want to connect the amp directl to speakers.

Specification:

For the amplification, we use the Maxim MAX4466, an op-amp specifically designed for this delicat The amplifier has excellent power supply noise rejection, so this amplifier sounds really good and isn as noisy or scratchy as other mic amp breakouts we've tried! You can set the gain from 25x to 125x. That's down to be about 200mVpp (for normal speaking vo about 6" away) which is good for attaching to something that expects 'line level' input without clipping or up to about 1Vpp, ideal for reading from a microcontroller ADC. The output is rail-to-rail so if the so gets loud, the output can go up to 5Vpp! For the best performance, use the "quietest" supply available (on an Arduino, this would be the 3.3 supply). The audio waveform will come out of the OUT pin. The output will have a DC bias of VCC/2 s

its perfectly quiet, the voltage will be a steady VCC/2 volts (it is DC coupled). If the audio equipment y using requires AC coupled audio, place a 100uF capacitor between the output pin and the input of you device. If you're connecting to an audio amplifier that has differential inputs or includes decoupling capacitors, the 100uF cap is not required.

Package Included:

1 x MAX4466 Module  
PCB color options :  
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