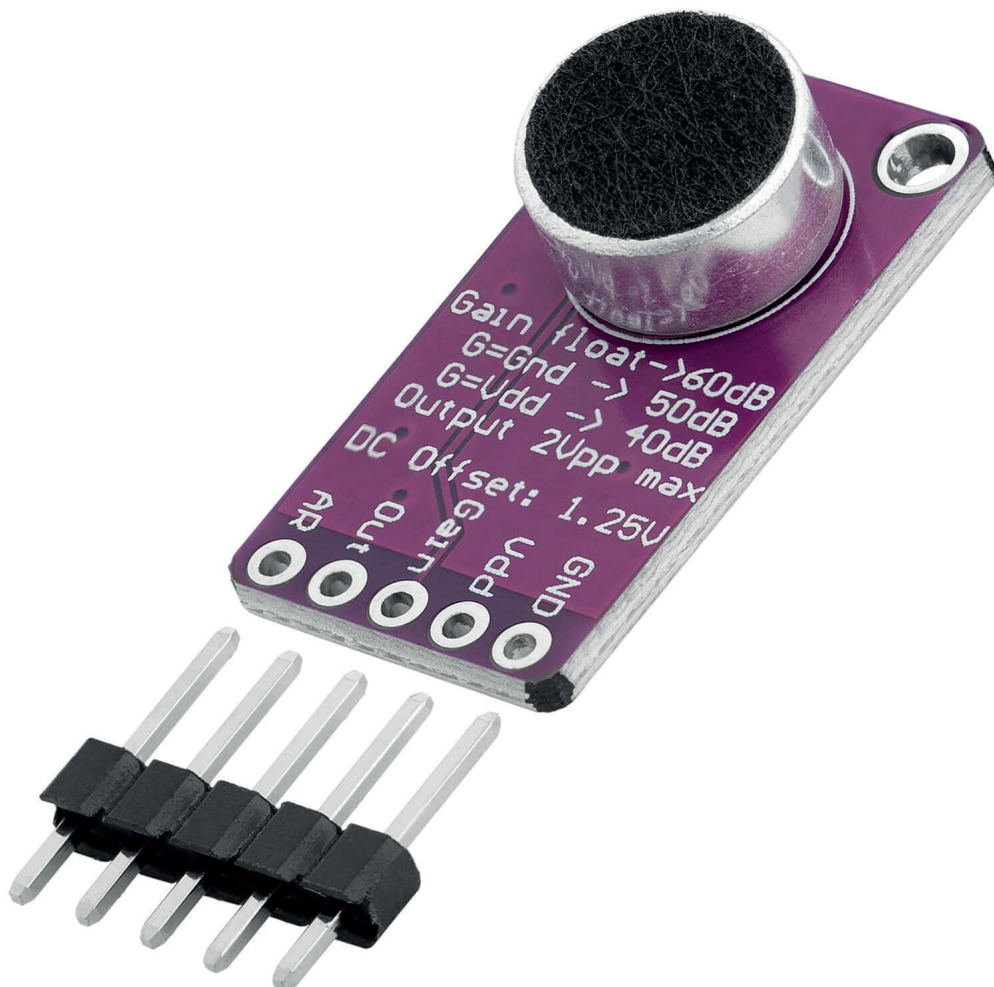


MAX9814 Mikrofon Modul Datenblatt



Content:

[1. Specifications](#)

[2. Pinout](#)

[3. Connection Diagram](#)

1. Specifications

Output Load Voltage	2.7V to 5V DC
Output Current	0.5mA max.
Gain Settings	40dB, 50dB, 60dB
Interface	Analog
Mounting Holes Diameter	3mm
Operating Temperature Range	-40°C to +85°C
Dimesions	25mm x 14mm x 9mm (0.9in x 0.5in x 0.3in)

2. Pinout

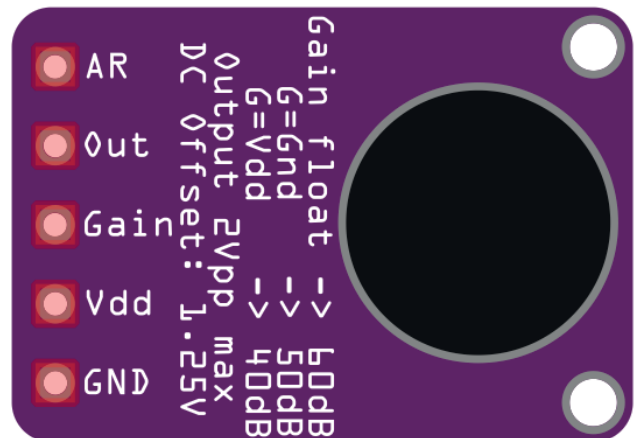
ATTACK/RELEASE RATIO PIN - AR

ANALOG OUTPUT - OUT

GAIN SETTING PIN - GAIN

POWER SUPPLY - VDD

GROUND - GND



The AR pin controls the attack-release time ratio for the AGC circuit.

There are 3 settings that are changed by connecting the AR pin to GND, VDD or left unconnected:

AR to GND - Attack/Release Ratio is 1:500

AR to VDD - Attack/Release Ratio is 1:2000

AR Unconnected - Attack/Release Ratio is 1:4000

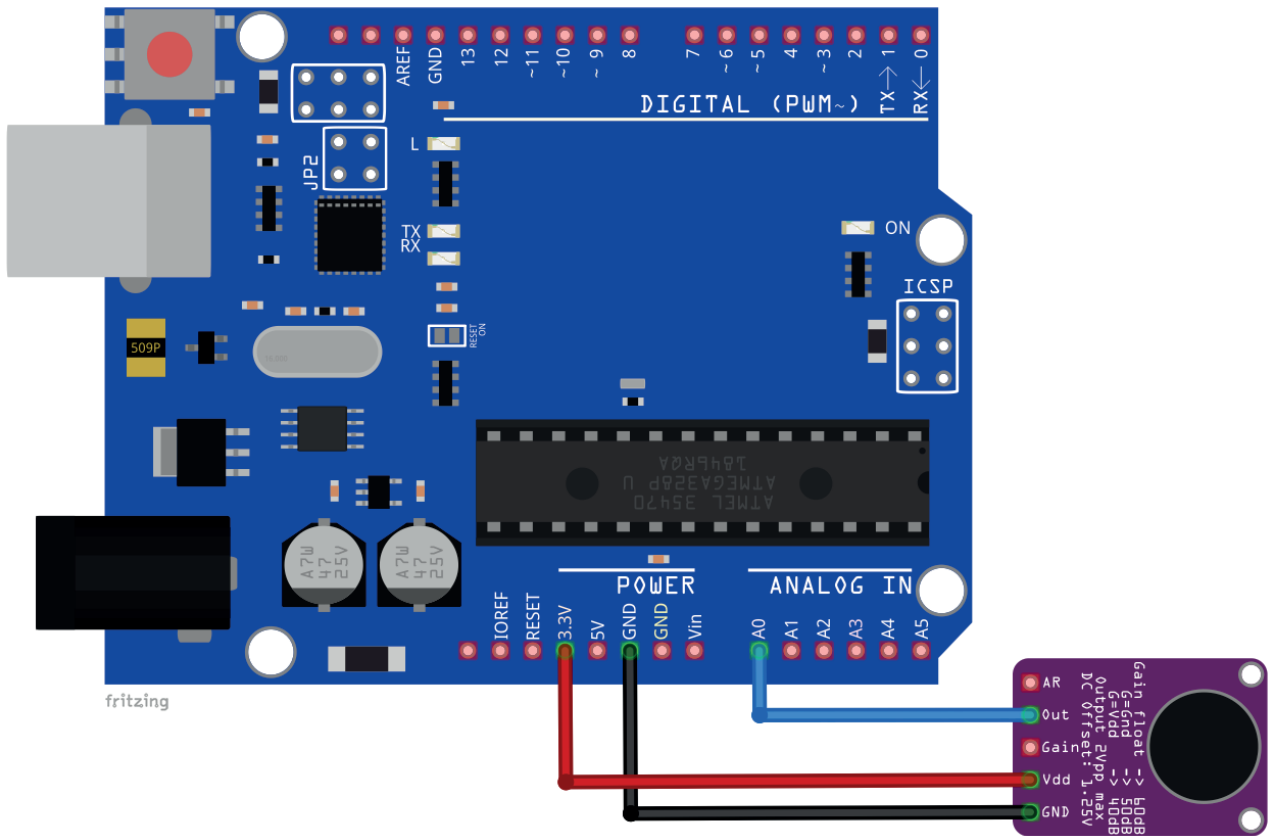
The GAIN pin controls the gain amplification level of the module. The gain can be set by connecting the GAIN pin to GND, VDD or left unconnected:

GAIN to VDD - gain set to 40dB.

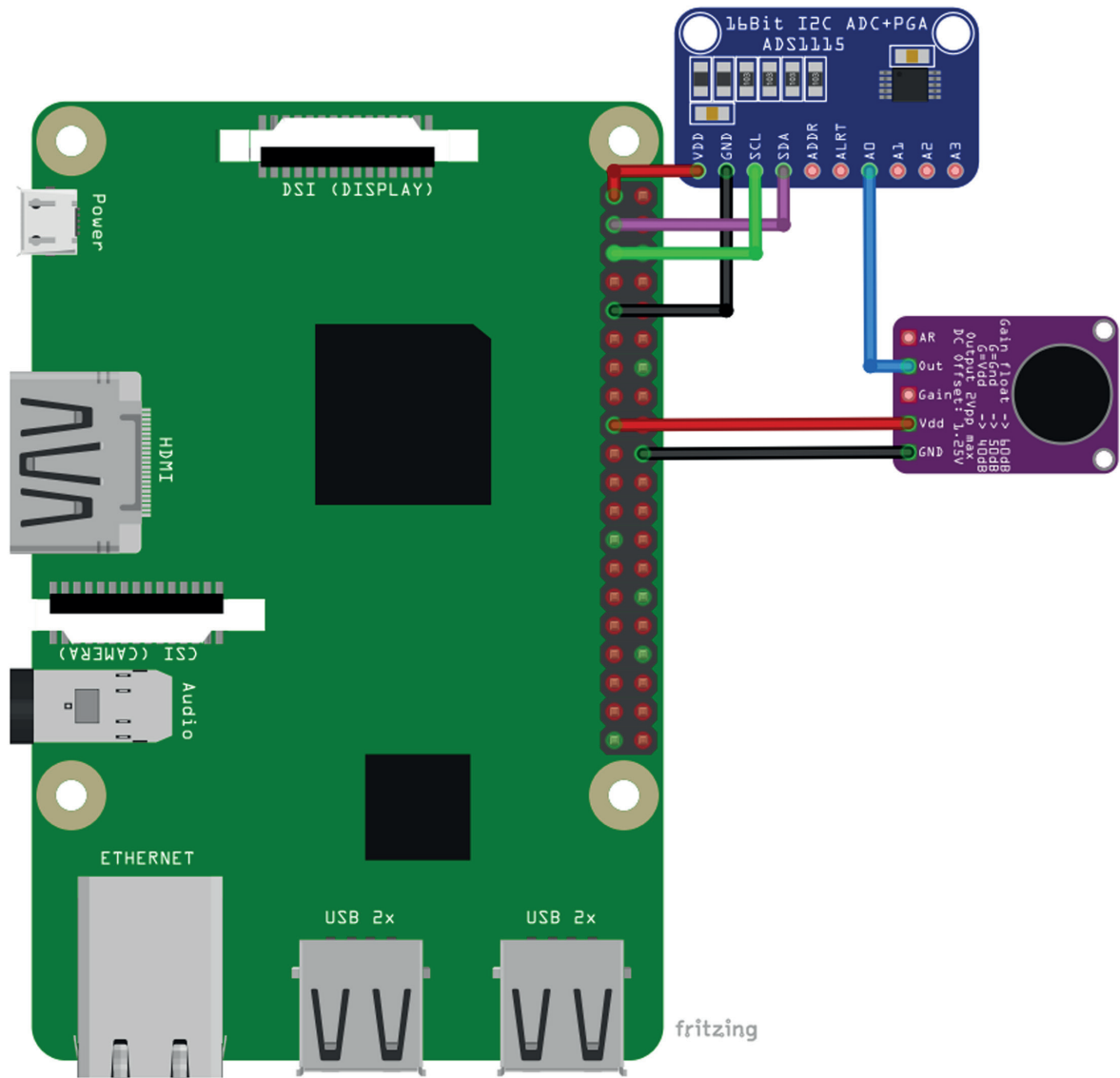
GAIN to GND - gain set to 50dB.

GAIN Unconnected - uncompressed gain set to 60dB

3. Connection Diagram



Module Pin	Microcontroller Pin	Wire Color
VCC	3.3V	Red Wire
GND	GND	Black Wire
OUT	A0	Blue Wire



MAX9814 Pin	Microcontroller Pin	Wire Color
GND	GND - pin 14	Black Wire
+(VCC)	3V3 - pin 17	Red Wire
MAX9814 Pin	ADS1115 Pin	
A0	A0	Brown Wire
ADS1115 Pin	Microcontroller Pin	
VDD	3V3 - pin 1	Red Wire
GND	GND - pin 9	Black Wire
SDA	GPIO2 - pin 3	Green Wire
SCL	GPIO3 - pin 5	Blue Wire

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