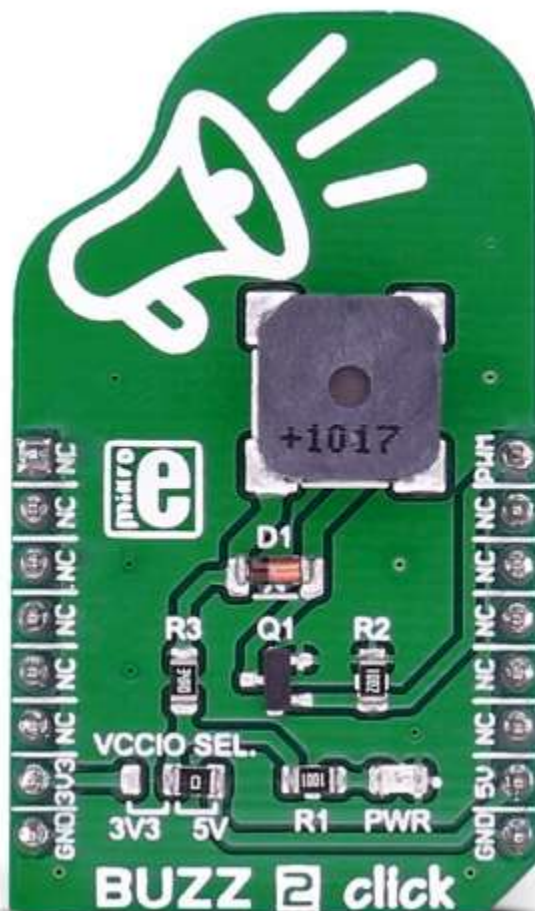


## BUZZ 2 click

PID: MIKROE-2720

**BUZZ 2 click** carries the [CMT-8540S-SMT](#) magnetic buzzer transducer. The buzzer's resonant frequency is 4kHz. The click is designed to run on either 3.3V or 5V power supply.



# How the click works

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The CMT-8540S-SMT magnetic buzzer is controlled by the PWM pin on the mikroBUS™ line.

You can create different sound patterns using the Sound library supported in our compilers, or utilize the microcontroller internal PWM module to create the signal for the buzzer. Signal frequency determines the sound pitch, and the duty cycle determines the amplitude (sound volume).

## Power supply selection

Onboard VCCIO SEL zero-ohm resistor (SMD jumper) is used to determine whether 5V or 3.3V power supply is used. This resistor is placed in 5V position by default.


## Specifications

<b>Type</b>	Magnetic
<b>Applications</b>	The click is ideal for adding audio signalization feature to your prototype device
<b>On-board modules</b>	CMT-8540S-SMT magnetic buzzer transducer
<b>Key Features</b>	4kHz resonant frequency
<b>Interface</b>	PWM
<b>Input Voltage</b>	3.3V or 5V
<b>Click board size</b>	M (42.9 x 25.4 mm)

## Pinout diagram

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This table shows how the pinout on **BUZZ 2 click** corresponds to the pinout on the mikroBUS™ socket (the latter shown in the two middle columns).

Notes	Pin					Pin	Notes
		1	AN	PWM	16		
	NC	1	AN	PWM	16	<b>PWM</b>	PWM input
	NC	2	RST	INT	15	NC	
	NC	3	CS	TX	14	NC	
	NC	4	SCK	RX	13	NC	
	NC	5	MISO	SCL	12	NC	
	NC	6	MOSI	SDA	11	NC	
Power supply	<b>+3.3V</b>	7	3.3V	5V	10	<b>+5V</b>	Power supply
Ground	<b>GND</b>	8	GND	GND	9	<b>GND</b>	Ground