Piezo Driver Click

PID: MIKROE-5896

Piezo Driver Click is a compact add-on board that allows you easy system configuration for driving a two-terminal or three-terminal piezo sounder with few external components. This board features the PAM8906, a piezo sounder driver with self-excitation mode from Diodes Incorporated. It has a built-in boost converter capable of driving a piezo sounder with up to 12V. This way, it can provide an optimized solution with a higher Sound Pressure Level (SPL) for louder output sound and lower quiescent current, along with an auto turn-on/off feature for extended battery runtime. This Click board™ makes the perfect solution for the development of smoke, gas, water alarms, industrial security alarms, air humidifiers or ultrasonic-related piezo driver applications, security devices, home applications, and more.

Piezo Driver Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets Piezo Driver Click apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

Specifications

Type	Speakers
Applications	Can be used for the development of smoke, gas, water alarms, industrial security alarms, air humidifiers or ultrasonic-related piezo driver applications, security devices, home applications, and more
On-board modules	PAM8906 - piezo sounder driver with self-excitation mode from Diodes Incorporated
Key Features	Piezo driver with self-excitation mode, can drive two-terminal or three-terminal piezo sounders, automatic shutdown, and wake-up, high-speed driver with very short turn ON/OFF times, integrated boost converter, and more
Interface	PWM
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

Piezo Driver click example on Libstock

Piezo Driver click schematic

PAM8906 datasheet

Piezo Driver click 2D and 3D files