

## Haptic 4 Click



PID: MIKROE-6045

**Haptic 4 Click** is a compact add-on board that enables precise haptic feedback in various electronic projects. This board features the DA7280, a haptic driver designed to drive linear resonant actuator (LRA) and eccentric rotating mass (ERM) actuators from Renesas. The DA7280 boasts a differential output drive and continuous motion sensing for calibration-free operation, coupled with wide-band support to leverage the capabilities of modern LRAs. It supports six independent haptic sequences activated directly via mikroBUS™ pins or externally through I2C or PWM signals, offering extensive flexibility for haptic configuration. Ideal for enhancing user experience in wearables, electronic peripherals, automotive interfaces, industrial controls, and AR/VR controllers, this Click board™ opens new possibilities for interactive and tactile-responsive technology.

Haptic 4 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 this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	Haptic
Applications	Ideal for wearables, electronic peripherals, automotive interfaces, industrial controls, and AR/VR controllers
On-board modules	DA7280 - haptic driver designed to drive LRA and ERM actuators from Renesas
Key Features	ERM/LRA motor drive, automatic closed-loop LRA resonant frequency tracking, differential output drive architecture, wideband operation, flexible haptic configuration, external control option (I2C, PWM or GPIO), diagnostics feature, and more
Interface	GPIO, I2C, PWM
ClickID	Yes
Compatibility	mikroBUS™
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[Haptic 4 click example on Libstock](#)

[DA7280 datasheet](#)

[Haptic 4 click schematic](#)

[Haptic 4 click 2D and 3D files](#)

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