

Piezo actuators

TDK releases PowerHap Development Starter Kit for haptic feedback

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TDK Corporation (TSE:6762) presents a development starter kit for fast haptics prototyping. It gives mechanical designers and engineers first impressions of the haptic feedback with PowerHap™ piezo actuators, shows how the mechanical integration works, and provides a reference design, which can be adapted to various applications. PowerHap piezo actuators offer an unprecedented quality of haptic feedback based on their unrivaled performance of acceleration, force, and response time. Example applications include automotive (e.g., steering wheels, displays, dashboards, buttons), smartphones, displays and tablets, household appliances, ATMs and vending machines, game controllers, VR gloves, industrial equipment, and medical devices.

The PowerHap Starter Kit (ordering code: Z63000Z2910Z01Z73) consists of a seamless button assembly (incl. PowerHap 1204H018V060 and PowerHap 1313H018V120), a round button assembly (incl. PowerHap 1204H018V060), the BOS1901-Kit driver board from Boréas Technologies, additional PowerHap devices (incl. FPC connection cable), USB cable, and a quick start user guide.

The BOS1901-Kit platform in the starter kit is pre-programmed for the seamless button and the round button, so that it is possible to experience sensing and haptics with the PowerHap actuators out-of-the-box. The features of the Boréas platform make it easy to customize and tailor the haptic experience by adjusting the sensing detection parameters and the haptic feedback waveform.

Main applications

- Automotive (e.g., steering wheels, displays, dashboards, buttons)
- Smartphones, displays, and tablets
- Household appliances
- ATMs and vending machines
- Game controllers, VR Gloves
- Industrial equipment
- Medical devices

Main features and benefits

- Unprecedented quality of haptic feedback
- Easy to integrate into systems

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately “Attracting Tomorrow.” It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK’s comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic, and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2023, TDK posted total sales of USD 16.1 billion and employed about 103,000 people worldwide.

You can download this text and associated images from www.tdk-electronics.tdk.com/en/230906
Further information on the products can be found under <https://www.tdk-electronics.tdk.com/en/powerhap>

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