

## Exhibitions

# TDK displays the latest in electronic solutions for embedded technologies at embedded world 2024

- Technologies ranging from sensor solutions, passive components, power supplies and embedded motor controllers to flash storage, machine learning and positioning software solutions
- TDK is represented from April 9 to 12 in Nuremberg, Germany, at booth 223 in hall 1

March 12, 2024

TDK Corporation (TSE 6762) will showcase its latest technology innovations at embedded world 2024, taking place from April 9 to 12 in Nuremberg, Germany. Visitors can explore the comprehensive range of solutions from TDK Group at booth 223 in hall 1. Product marketing, R&D, and sales members will be on-site to explain the latest offering. Qeexo, a TDK Group company, will do a live demonstration of embedded machine learning development using ARM Keil MDK and Qeexo AutoML during a presentation at the ARM booth (Hall 4, Booth 606).

Technology highlights include:

### Sensor solutions

- **TMR & MEMS Gyro Fusion:**  
Tracking everything every time, a super high accuracy position sensing solution, using on-chip system-level sensor fusion of IMU (Inertial Measurement Unit) and magnetometer.
- **Magnetic sensors:**  
Fast 2D angular position sensor family HAL 302x, addressing the need for stray-field robust motor position sensing.
- **Industrial MEMS Sensors:**  
High-performance sensors for vibration detection and robotics.
- **MEMS Motion sensors:**  
True Wireless Stereo (TWS) devices showing 360° spatial audio and active noise cancellation, enabled by ultra-low power VibeSense360™ motion sensor solution.
- **Ultrasonic Time of flight (ToF) sensors:**  
Ultrasonic sensing wake-up with power-saving smart detection, enabled by SmartSonic™ presence detection and obstacle avoidance sensors, ideal for a wide range of IoT products that require contextual awareness.
- **SmartEdgeML Machine Learning:**  
Advanced edge machine learning solution to run ultra-low power ML models on a 6-axis IMU chip, enabling new possibilities for IoT products like wearables, hearables, and AR glasses.

### Passive component solutions

- PowerHap piezo actuators for haptic feedback, which offer unrivaled acceleration force and response time, e.g. for haptics in steering wheels and automotive displays.

### Embedded motor controllers

- HVC 5x, a family of programmable system-on-chip (SOC) motor controllers for driving small stepper, brushed (BDC) and brushless (BLDC) DC motors in automotive and industrial applications.

### Power supply solutions

- 300 W rated RGC series of ruggedized non-isolated DC-DC buck-boost converters, with an input voltage of 9 to 53 V.
- 250 W rated RGA series of ruggedized non-isolated DC-DC buck converters. Capable of operating from an input voltage of 9 to 40 V or 9 to 53 V.
- 6 W and 10 W CCG series of DC-DC converters, suitable for either through hole or surface mount placement.
- i7A series of non-isolated DC-DC buck converters with the industry-standard 1/16th brick footprint.

### Positioning & navigation software:

- RIDE & TRACK software, inertial-aided positioning for always-on, enhanced vehicle navigation delivering positioning in GNSS-denied or degraded environments.
- AUTO software, inertial plus GNSS and perception positioning for autonomous and semi-autonomous platforms, delivering decimeter positioning accuracy in GNSS-denied or degraded environments.
- VENUE, a near infrastructure-free indoor positioning and real-time location services platform leveraging magnetic, inertial, and other signals of opportunity to position workers, forklifts, robots, and other assets.

### Flash storage solutions

- Solid State Drives (SSDs) featuring GBDriver series, realizing moderately high-speed access and stable operation while securing data reliability.
- DRAM-less SSDs with a power backup circuit to minimize data errors, ideal solution for industrial embedded systems.

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### 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.

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