

Azoteq Expands Haptic Portfolio with IQS391 and IQS397 Integrated Circuits

AUSTIN, TX, UNITED STATES, June 24, 2025 /EINPresswire.com/ -- Azoteq, a global leader in sensing and haptic technology, announces the release of two new integrated circuits (ICs) designed for precision tactile feedback: the IQS391 Haptic Driver and the IQS397 ProxFusion[®] Sensor with Integrated <u>Haptics</u>. These devices offer



Azoteq Logo

energy-efficient, real-time control for applications across consumer electronics, industrial controls, and wearables.

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> Jean Viljoen, Chief Sales Officer at Azoteq

IQS391: Focused Control, Minimal Overhead

The IQS391 is a compact, efficient haptic driver for Linear Resonant Actuators (LRAs), supporting both I²C and PWM modes. A streamlined single-byte I²C interface simplifies development and reduces firmware complexity, making it ideal for battery-powered devices where responsiveness and low power matter.

Key Features of the IQS391:

- I²C Mode for direct actuator frequency control
- PWM Mode for external signal-driven behavior
- · Low firmware overhead for fast development

· Optimized for power-sensitive designs like wearables and handhelds

IQS397: Integrated Sensing with Smart Haptic Control

The IQS397 combines capacitive or inductive touch sensing with an integrated LRA driver. Built on Azoteq's ProxFusion[®] platform, it enables autonomous, event-driven haptic feedback with minimal load on the host MCU. Designed for real-time responsiveness and robust operation, the IQS397 supports flexible configuration and dynamic power management.

Key Features of the IQS397:

- Capacitive or inductive sensing with integrated haptic driver
- I²C and Standalone modes for flexible control
- Selectable drive frequencies with Hbridge protection
- Power mode management for extended battery life
- Reliable operation in noisy environments

Designed for Real-World Integration



Both ICs are supported by evaluation kits, PC-based GUI tools, reference designs, and a motor compatibility list—streamlining implementation and reducing time to market. Combining sensing and haptic output in a single chip lowers BOM cost, simplifies layout, and accelerates product development.

Jean Viljoen, Chief Sales Officer at Azoteq, commented:

"The IQS391 and IQS397 extend Azoteq's capabilities in haptics and sensing. The IQS397, especially, changes the game by unifying input and tactile output in a single device."

Packaging and Voltage Options:

- Supply Voltage: 1.71 V to 3.6 V
- Package: QFN20 (3 × 3 × 0.55 mm), 0.4 mm pitch

Developer Resources:

Azoteq supports engineers with a complete development ecosystem:

- Detailed datasheets and design guides
- Reference schematics and firmware examples
- Evaluation kits and PC-based configuration tools
- Technical support for integration and troubleshooting

About Azoteq (Pty) Ltd:

Azoteq (<u>www.azoteq.com</u>) is a leader in sensor fusion and haptic innovation. With a portfolio that integrates capacitive, inductive, IR, Hall-effect, and ambient-light sensing into single ICs, Azoteq's ProxFusion[®] technology powers next-generation user interfaces across global markets. The company operates from design centers in South Africa and Asia, supported by an international distribution network.

Jean Viljoen Azoteq This press release can be viewed online at: https://www.einpresswire.com/article/825144765

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