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# New EX-423 Evacuated Miniature Crystal Oscillator for Critical Timing in Low- and Battery-Powered Applications

**Ruggedized in an ultra-low vacuum for enhanced thermal insulation, the EX-423 delivers stability and RF performance**

CHANDLER, Ariz., May 14, 2026 (GLOBE NEWSWIRE) -- Microchip Technology (**Nasdaq: MCHP**) today announced the [EX-423 Evacuated Miniature Crystal Oscillator \(EMXO\)](#), a compact, low-power timing solution designed for applications that demand high stability, accuracy and long-term reliability. Building on the company's EX-421 portfolio, the EX-423 delivers high RF performance in a low-profile 13 mm x 13 mm package for space- and power-constrained designs.

Ruggedized for demanding environments, the EX-423 is sealed in an ultra-high vacuum designed to provide optimal thermal insulation and help improve frequency stability. Its quartz crystal uses a four-point mount to enhance shock survivability and reduce g-sensitivity, making it well suited for GPS/GNSS tracking, military radios, medical devices, Ocean Bottom Node (OBN) seismic systems, test and measurement equipment and satellite communications.

“When developing the EX-423, we focused on the key parameters designers use to evaluate high-performance reference oscillators,” said Randy Brudzinski, corporate vice president of Microchip's frequency and time systems business unit. “Delivering this level of performance in a rugged, small footprint helps customers simplify designs without compromising timing accuracy.”

The EX-423 combines ultra-low phase noise with tight temperature control, strong short-term stability (Allan deviation), fast warm-up, and long-term frequency stability. Operating over a standard 10–20 MHz frequency range, the device consumes 1W during warm-up and as little as 0.2W at +25 °C in steady state, helping extend battery life while maintaining a clean, stable reference under specified operating conditions.

Microchip offers an extensive portfolio of clock and timing systems from miniature component oscillators to small plug-in timing server cards to multi-rack time scale systems. Recognized as a contributor to the world's time, Microchip's timing solutions are trusted, reliable and resilient. For more information, visit [Microchip's Clock and Timing Systems web page](#).

## **Pricing and Availability**

The EX-423 EMXO is now available for purchase. For more information, technical or sales support please reach out to a Microchip Sales Representative or email: [VOP-](#)

[Support@microchip.com](mailto:Support@microchip.com).

## Resources

High-res images available through Flickr or editorial contact (feel free to publish):

- Application image:

<https://www.flickr.com/photos/microchiptechnology/55251594248/sizes/l>

### **About Microchip Technology:**

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