

Epson Celebrates Shipping Milestone of Breakthrough M-G370PDT Inertial Measurement Unit at ION GNSS+ 2025

Precision. Performance. Proven. Epson Inertial Sensors Set the Standard for Next-Generation Navigation

BALTIMORE, MD, UNITED STATES, September 10, 2025 /EINPresswire.com/ -- Epson, a leading global supplier of high-performance components including quartz crystal-based inertial sensors and semiconductors, today announced its milestone moment at the [ION GNSS+ 2025](#) Trade Show on September 10–11, 2025, at the Hilton Baltimore Inner Harbor (Booth #323). Epson is showcasing the M-G370PDT Inertial Measurement Unit (IMU), one of their latest sensors engineered for advanced navigation and stabilization applications where reliability, precision, and performance are critical.

Having delivered over 5000 devices since introduction in 2024, the M-G370PDT IMU represents the latest evolution of Epson's inertial sensor portfolio, delivering very low-noise performance in a compact 1-inch form factor. Purpose-built for demanding applications, it empowers engineers working in:



Epson M-G370T connector face

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Bhushan Chaudhari, Senior Product Marketing Manager, Epson Microdevices

- Optical stabilization – enabling high accuracy for imaging and observation systems.
- Spacecraft guidance – enabling resilience in extreme environments beyond Earth's atmosphere.
- Machine control – driving precision and efficiency in industrial and autonomous platforms.
- Structural health monitoring – providing unparalleled sensitivity to detect and measure vibration, tilt, and shifts in large-scale infrastructure.

“The M-G370PDT IMU is more than a sensor—it's a gateway to enabling innovation in navigation and control systems,” said Bhushan Chaudhari, Senior Product Marketing Manager, [Epson](#)

[Microdevices](#). "Engineers across aerospace, robotics, and industrial markets demand performance without compromise. With a spaceflight heritage that includes two trips to Mars, it delivers the performance the industry requires and offers the precision and reliability needed for future projects."

Combining compact size (24 × 24 × 10 mm), lightweight design (~10 g), and ultra-low power consumption (16 mA @ 3.3 V), the M-G370PDT achieves high-end performance which is often seen in systems which consume more power and are greater in size. It also features gyroscopes with 0.8°/h bias instability and 0.03°/√h angular random walk, along with accelerometers offering ±8 G or ±16 G ranges for high accuracy across mission-critical conditions. With SPI and UART interfaces, up to 2 kSps digital output, and factory calibration from -40 °C to +85 °C, the device is designed to perform reliably across

diverse and extreme operating environments. The M-G370PDT is designed for various applications, from mid-to-low Earth orbit satellites, airborne unmanned vehicles and land-based navigation systems. Epson's proven space heritage is underscored by the deployment of select M-G370 series IMUs in the Internal Ball Camera 2 aboard the International Space Station (ISS), where they deliver microgravity stabilization in one of the harshest environments imaginable. With Epson's heritage as a pioneer in crystal device technology since the 1960s and backed by fully integrated in-house quartz and semiconductor manufacturing, the M-G370PDT embodies the company's commitment to power savings, miniaturization, and uncompromising quality.

Visitors are invited to experience Epson's innovative inertial sensor portfolio and meet with Epson's technical experts at Booth #323.

For more information on Epson Microdevices and the M-G370PDT IMU, please visit:

<https://epson.com/microdevices>

About ION GNSS+ Conference & Trade Show

The ION GNSS+ Conference & Trade Show is the world's largest technical meeting and showcase



Epson M-G370T marking face

The Epson logo, consisting of the word "EPSON" in a bold, blue, sans-serif font, followed by a registered trademark symbol (®).

Epson Logo

of GNSS technology, products, and services. Drawing global leaders in positioning, navigation, and timing, the event offers a premier platform for companies like Epson to demonstrate breakthroughs in sensor and navigation solutions.

About Epson Microdevices - Precision. Performance. Proven.

Epson Microdevices is a leading global supplier of high-performance components, including semiconductors and quartz crystal-based inertial sensors and timing devices such as crystal units and oscillators. Epson Microdevices integrates Japanese manufacturing excellence with marketing, sales, and engineering expertise to deliver world-class products and services. A pioneer in the crystal device market since the 1960s, Epson's in-house production of raw quartz and semiconductors drives innovation in quality, power savings, miniaturization, and performance. For more information, visit <https://epson.com/microdevices>.

About Epson

Epson is a global technology leader whose philosophy of efficient, compact and precise innovation enriches lives and helps create a better world. The company is focused on solving societal issues through innovations in home and office printing, commercial and industrial printing, manufacturing, visual and lifestyle. Epson's goal is to become carbon negative and eliminate use of exhaustible underground resources such as oil and metal by 2050.

Led by the Japan-based Seiko Epson Corporation, the worldwide Epson Group generates annual sales of more than JPY 1 trillion. global.epson.com/

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