



EMCORE SDI500/505 IMU Ranked First in U.S. Military-Commissioned Inertial Measurement Unit Trade Study

April 7, 2021

ALHAMBRA, CA, April 07, 2021 (GLOBE NEWSWIRE) -- EMCORE Corporation (Nasdaq: EMKR), a leading provider of advanced mixed-signal products that serve the aerospace & defense and broadband communications markets, announced today that its SDI500/505 Inertial Measurement Unit (IMU) has been ranked 1st in overall accuracy in a U.S. Military-commissioned IMU trade study of 19 competing IMUs being evaluated as an alternative to the Honeywell HG1700 for various weapons systems.

The objective of the third-party independent study was to deliver a comprehensive report to the government and make a recommendation supported by clear and compelling technical, financial, and other relevant data collected regarding the most advantageous IMU products and services available in the market today. 19 IMUs of various technologies, complexity, cost, and developmental status, from leading manufacturers, were evaluated in short and long flyout simulations against the HG1700.

The study concluded that EMCORE's SDI500/505 IMU, with reduced size, weight, and power compared to HG1700, delivered "compelling performance, cost, SWAP, maturity" and outperformed the HG1700 in both flyout simulations. The test house spokesperson stated, "the SDI500/505 system was a solid performer across the performance, technical maturity, warhead integration, and cost analysis threads." Therefore, the SDI500/505 scored #1 out of the 19 different IMUs tested.

"The results of this IMU trade study are further validation of the clear industry leadership of our mature and proven SDI500/505 IMU," said Albert Lu, EMCORE's Senior Vice President and General Manager, Aerospace & Defense. "They outperform other MEMS IMUs and continuously deliver comparable performance to older, costlier optical IMUs in a lower power, smaller, and lighter form factor," added Mr. Lu.

The dual-use non-ITAR SDI500/505 IMUs are designed to achieve the demanding performance levels required in sophisticated systems, including weapons guidance and targeting, commercial and defense fixed-wing aircraft & helicopters, UAVs (Unmanned Autonomous Vehicles), and a wide variety of other high-precision commercial, industrial, marine, defense, and space applications. They leverage industry-leading Quartz MEMS technology to deliver Angle Random Walk (ARW) values of $0.02^\circ/\sqrt{\text{hr}}$ with $1^\circ/\text{hr}$ bias stability.

We would welcome a deeper engagement with technical teams around the world to explore how our current and upcoming products could meet your needs for guidance, navigation, and control. For further discussion and specifications, call +1 866-234-4976; e-mail: navigation-sales@emcore.com; or visit us on the web: www.emcore.com/nav.

About EMCORE

EMCORE Corporation is a leading provider of advanced mixed-signal products that serve the aerospace & defense and broadband communications markets. Our best-in-class components and systems support a broad array of applications including navigation and inertial sensing, defense optoelectronics, broadband transport, 5G wireless infrastructure, optical sensing, and cloud data centers. We leverage industry-leading Quartz MEMS, Lithium Niobate, and Indium Phosphide chip-level technology to deliver state-of-the-art component and system-level products across our end-market applications. EMCORE has vertically-integrated manufacturing capability at its wafer fabrication facility in Alhambra, CA, and Quartz MEMS manufacturing facility in Concord, CA. Our manufacturing facilities maintain ISO 9001 quality management certification, and we are AS9100 aerospace quality certified at our facility in Concord. For further information about EMCORE, please visit <http://www.emcore.com>.

Forward-looking statements:

The information provided herein may include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, as amended. Such statements include statements regarding EMCORE's plans, strategies, business prospects, growth opportunities, changes, and trends in our business and expansion into new markets. These forward-looking statements are based on management's current expectations, estimates, forecasts, and projections about EMCORE and are subject to risks and uncertainties that could cause actual results and events to differ materially from those stated in the forward-looking statements, including without limitation, the following: (a) uncertainties regarding the effects of the COVID-19 pandemic and the impact of measures intended to reduce its spread on our business and operations, which is evolving and beyond our control; (b) the rapidly evolving markets for EMCORE's products and uncertainty regarding the development of these markets; (c) EMCORE's historical dependence on sales to a limited number of customers and fluctuations in the mix of products and customers in any period; (d) delays and other difficulties in commercializing new products; (e) the failure of new products: (i) to perform as expected without material defects, (ii) to be manufactured at acceptable volumes, yields, and cost, (iii) to be qualified and accepted by our customers, and (iv) to successfully compete with products offered by our competitors; (f) uncertainties concerning the availability and cost of commodity materials and specialized product components that we do not make internally; (g) actions by competitors; and (h) other risks and uncertainties discussed under Item 1A - Risk Factors in our Annual Report on Form 10-K for the fiscal year ended September 30, 2020, as updated by our subsequent periodic reports. Forward-looking statements contained in this press release are made only as of the date hereof, and EMCORE undertakes no obligation to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

Contact:

EMCORE Corporation

David Hoyh
Director, Sales & Marketing
(925) 979-4503
David_Hoyh@emcore.com

Investor

Tom Minichiello
Chief Financial Officer
(626) 293-3400
investor@emcore.com

Media

Joel Counter
Director, Corporate & Marketing Communications
(626) 999-7017
media@emcore.com

Source: EMCORE Corporation