



EMCORE Introduces New EMCORE-Hawkeye™ Series of Precision Single-Axis Fiber Optic Gyroscope Modules

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ALHAMBRA, Calif., Feb. 06, 2018 (GLOBE NEWSWIRE) -- EMCORE Corporation (NASDAQ:EMKR), a leading provider of advanced *Mixed-Signal Optics* products that provide the foundation for today's high-speed communication network infrastructures and leading-edge defense systems, announced today the introduction of the new EMCORE-Hawkeye™ series of precision, single-axis Fiber Optic Gyroscope (FOG) modules. The new EMCORE-Hawkeye™ EG-120 and EG-200 models will deliver the industry's best Size, Weight and Power (SWaP) compared to competing products.

The EMCORE-Hawkeye™ EG-120 FOG module is an ultra-compact, state-of-the-art design that is the smallest, most affordable closed-loop FOG available on the market today. It is approximately 1/2 the weight with 1/3 the power requirements of current generation FOGs and is 35% smaller than EMCORE's previous generation EMP series FOGs. The EMCORE-Hawkeye™ EG-120 incorporates advanced, next-generation Field Programmable Gate Array (FPGA) electronics that deliver increased performance and reliability combined with low cost. The model EG-200 shares these advanced electronics with the EG-120, but with even greater performance capabilities compared to the EG-120 and the EMP series.

The EMCORE-Hawkeye™ series features performance specifications ideal for medium accuracy platform stabilization applications such as camera systems used in aircraft, Unmanned Aerial Vehicles (UAVs) and gun stabilization systems. A wide variety of other guidance, navigation and aeronautics applications are supported. The differences between these new models provide customers with greater flexibility to choose the performance level and form-factor that best meets their application, and these are only the first models to be announced. The EMCORE-Hawkeye™ FOG platform will allow even greater selection of performance capabilities in the future to meet a broad range of customer requirements.

"We saw a market need for an ultra-compact, more cost-effective FOG than what is currently available on the market," commented David Faulkner, EMCORE's Vice President and General Manager of Aerospace & Defense. "Our new EMCORE-Hawkeye series delivers a high level of performance and at the same time can be easily customized to meet our customer's needs. We are very pleased to have received initial orders for both these products from key customers for qualification into their systems," added Mr. Faulkner.

"EMCORE now develops all its key FOG components internally including the next-generation, solid-state optical transceiver, lithium-niobate modulator and FPGA electronics," added Dr. KK Wong, Sr. Director of Fiber Optic Gyro Products for EMCORE. "This allows performance parameters to be more easily customized to specific customer requirements at price levels equivalent to, or less than that of lower-performance open-loop designs."

EMCORE's EG-120 has a typical in-run bias drift from 1-10 deg/hr with Angle Random Walk (ARW) from 0.1 to 1 deg/rt-hr. The bias drift of the EG-200 is <0.1 deg/hr with ARW of 0.01 deg/rt-hr. Bias drift is an important measure of accuracy and precision of the FOG, with lower bias models delivering higher performance overall. EMCORE's new EG-120 and EG-200 FOG modules combine advanced, next-generation integrated optics and FPGA electronics to deliver higher accuracy, lower noise, greater efficiency, improved drift stability and higher linearity than competing units.

About EMCORE

EMCORE Corporation is a leading provider of advanced *Mixed-Signal Optics* products that provide the foundation for today's high-speed communication network infrastructures and leading-edge defense systems. Our optical chips, components, subsystems and systems enable broadband and wireless providers to continually enhance their network capacity, speed and coverage to advance the free flow of information that empowers the lives of millions of people daily. The *Mixed-Signal Optics* technology at the heart of our broadband transmission products is shared with our fiber optic gyros and military communications links to provide the aerospace and defense markets state-of-the-art systems that keep us safe in an increasingly unpredictable world. EMCORE's performance-leading optical components and systems serve a broad array of applications including cable television, fiber-to-the-premise networks, telecommunications, data centers, wireless infrastructure, satellite RF fiber links, navigation systems and military communications. EMCORE has fully vertically-integrated manufacturing capability through its world-class Indium Phosphide (InP) wafer fabrication facility at our headquarters in Alhambra, California, and is ISO 9001 certified in Alhambra and at our facility in Beijing, China. 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) the rapidly evolving markets for EMCORE's products and uncertainty regarding the development of these markets; (b) EMCORE's historical dependence on sales to a limited number of customers and fluctuations in the mix of products and customers in any period; (c) delays and other difficulties in commercializing new products; (d) 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; (e) uncertainties concerning the availability and cost of commodity materials and specialized product components that we do not make internally; (f) actions by competitors; and (g) 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, 2017, 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.

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