GLOBALFOUNDRIES and Linear Dimensions to Offer Joint Analog Solution For Fast-Growing Wearables and MEMs Sensors Markets

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CES 2015, Las Vegas, January 09, 2015 - GLOBALFOUNDRIES, a leading provider of advanced semiconductor manufacturing technology, and Linear Dimensions Semiconductor Inc., a semiconductor company specializing in low power analog and mixed signal integrated circuits, today announced that they are working together to manufacture a 14-channel programmable reference from Linear Dimensions for multiple markets including IoT (Internet of Things) sensor and wearable device applications.

The LND1114 is a 14-channel reference designed to meet the tuning needs of emerging IoT sensors and Wearable applications. The LND1114 is available in QFN-3x2.2mm form factor, and is the worlds smallest programmable multi-channel reference product. With a typical drift of only 13uV after 10 years at 70C, low temperature drift and an initial accuracy of 0.2%, the LND1114 is ideally suited for precision sensor biasing.

“GF's advanced process and development capabilities have allowed Linear Dimensions to engineer an analog non-volatile tuning solution ideally positioned for emerging wearable and portable IoT sensor applications," said David Schie, CEO of Linear Dimensions. "Devices such as wearable health and fitness products, cell phones, consumer cameras, media players and headsets are increasingly integrating multiple single and multi-function sensors to offer added functionality. These multiple sensors all require specific biasing and tuning to operate correctly. The LND1114 is a revolutionary new way to bias and tune precision devices because it offers multiple channels with unparalleled accuracy and flexibility, in a smaller footprint just a fraction of the size of existing solutions."

“As sensor based applications proliferate, and wearables become more popular in the market, technologies that enable such devices become extremely important,” said Gregg Bartlett, senior vice president of product management at GF. “We will continue to provide differentiated technology platforms from 350nm to 28nm that our customers can use for innovative products in the rapidly growing IoT and wearable markets. By partnering with Linear Dimensions we have been able to leverage our world-class analog processing capabilities to offer tuning and biasing performance that has not previously been available in such a small form factor."

GF has a solid track record of providing semiconductor technologies to a variety of market segments including mobility, industrial, automotive and computing. In mainstream technologies, GF offers modular platforms on technology nodes from 180nm to 40nm on both 200mm and 300mm wafers, with additional process modules such as analog, power management, radio frequency (RF), embedded non-volatile memory (eNVM) and Micro-Electro-Mechanical Systems (MEMS).

Wafer volume production for Linear Dimensions’ 14-channel programmable floating gate reference program is expected to start in Q3 2015 in GF manufacturing facility in Singapore.

ABOUT LINEAR DIMENSIONS

Headquartered in San Jose, California, Linear Dimensions is focused on powering and interfacing sensors and microelectromechanical systems (MEMs) for use in industrial, communications, IoT and wearable device applications. Linear's innovations include flexible analog front ends (AFEs), mixed-signal integrated circuits including application specific SoCs, communications devices, high performance analog math engines, and extraction & security algorithms and software. Visit Linear at CES booth #73314 @ The Sands to learn more.

ABOUT GF

GF is the world’s first full-service semiconductor foundry with a truly global footprint. Launched in March 2009, the company has quickly achieved scale as the second largest foundry in the world, providing a unique combination of advanced technology and manufacturing to more than 160 customers. With operations in Singapore, Germany and the United States, GF is the only foundry that offers the flexibility and security of manufacturing centers spanning three continents. The company’s three 300mm fabs and five 200mm fabs provide the full range of process technologies from mainstream to the leading edge. This global manufacturing footprint is supported by major facilities for research, development and design enablement located near hubs of semiconductor activity in the United States, Europe and Asia. GF is owned by Mubadala Development Company. For more information, visit http://www.globalfoundries.com.

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