

Kairos Microsystems

High Performance Silicon Semiconductor Technology

Kairos Microsystems is a fabless mixed-signal semiconductor company serving markets from communications to personal computers. Kairos leverages University of Florida patented technology that enables single chip electronic products with lower cost and smaller form factor. The resultant products are also more reliable and lower in power dissipation.

Technology

Kairos Microsystems technology consists of on-chip antenna and oscillator calibration techniques that enable highly integrated electronic solutions requiring the least number of off-chip components. By removing the need for expensive off-chip resonators and antennas, electronic products will benefit from lower bill of materials and manufacturing costs. In addition, these unique on-chip capabilities are widely available in standard CMOS (Complementary Metal-Oxide Semiconductor) technologies, from the lowest cost to the highest performance processes available.

Market Potential

Almost every electronic product requires one or more reference oscillators to set the absolute timing or frequency of the system. Reference integrated circuits (ICs) constitute a worldwide market of \$1.6 billion, and adding the crystal and surface acoustic wave (SAW) revenue drives timing in electronics to well over \$3 billion in sales. The market for reference circuits is gaining share due to the increasing complexity of designs and proliferation of timing and frequency domains. Market researchers expect the sales of reference IC's to double over the next five years, and Kairos's embedded and component references are estimated to serve a significant portion of this expanding market. In addition, Kairos expects to use its unique on-chip oscillator and antenna technology to extend its product portfolio into fast-growing wireless sensor network markets worth several billions of dollars annually.

Strategy

Kairos plans to bring its first all-CMOS reference oscillator technology to market in the near future. It will be designed to easily replace existing crystal-based references in high volume embedded applications. Initially, Kairos will pursue IP licensing and royalty fees for embedded references into fully integrated System-on-Chips (SoC's). In the longer term, Kairos is planning to enter the reference component market as the technology evolves.



Kairos Microsystems

Management Team

James Spoto - CEO

Mr. Spoto has more than 30 years of executive and technical experience in the semiconductor and EDA industries at companies such as Conexant, Harris and Cadence. He recently completed a six year stint as the president and CEO of Applied Wave Research where he led the company to profitability and sales growth from \$7M to more than \$20M. Spoto is a graduate of and major contributor to the University of Florida and is a member of the university's Engineering Advisory Board.

Dr. Kenneth O – CTO

Dr. O is a professor at the University of Florida and a leading researcher in the field of micro-electronics and RF/analog & mixed signal design. O has held advanced R&D industry positions at Analog Devices and Harris Corporation. He is a co-inventor of the licensed University of Florida digital calibration technique and holder of nine patents.

Joe E. Brewer – Chief Scientist

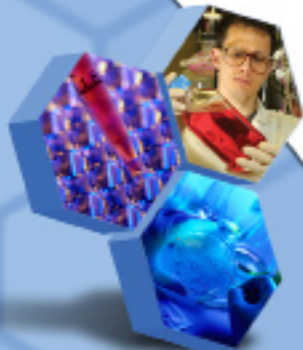
Mr. Brewer has more than 30 years of experience in advanced R&D primarily at Westinghouse Electric & Northrop Grumman. He is a recognized leader in materials, non-volatile memory, and packaging technology and is now an industry professor at the University of Florida. Brewer holds seven patents, has authored more than 100 conference and journal papers, and was recently elected Fellow of the IEEE.

Contact Information

James Spoto
Kairos Microsystems
Phone: (949) 854-4429
Mobile: (714) 321-3770
Fax: (949) 854-4492
E-mail: spoto@kairosmicro.com

*For more information about
UF start-up companies, contact:*

Chris Brown • UF TechConnect®
(352) 846-1840 • cbrown11@ufl.edu



UF Office of
Technology Licensing
UNIVERSITY of FLORIDA

UF Tech Connect
An EDA University Center

www.otl.ufl.edu

start-up opportunity