RFaxis Granted Four Fundamental Patents for Its Disruptive Single-Chip Single-Die RF Front-end Integrated Circuit (RFeIC) Technology

RFaxis announced it has been awarded four patents for its revolutionary single-chip, single-die RF Front-end Integrated Circuit (RFeIC(TM)) architecture. These are the fundamental patents among the company's substantial intellectual property (IP) portfolio which consists of more than 30 patents that have been filed to-date.

The patents are "Radio Frequency Transceiver Front End Circuit with Matching Circuit Voltage Divider," "Multi Mode Radio Frequency Transceiver Front End Circuit," "Multi Mode Radio Frequency Transceiver Front End Circuit with Inter-Stage Matching Circuit," and "Multi Mode Radio Frequency Transceiver Front End Circuit with Inter-Stage Power Divider."

"Our single-chip, single-die RFeIC architecture is process and materials agnostic, and can be implemented in all semiconductor technologies such as Gallium Arsenide-based HBT, Indium Phosphide-based HEMT, Silicon Germanium-based BiCMOS or pure bulk CMOS," commented Dr. Oleksandr Gorbachov, CTO of RFaxis. "We developed and productized our first-generation RFeICs including the RFX2401 for ZigBee and RFX2402 for WLAN using BiCMOS process in 2009. We have since successfully migrated these products to standard bulk CMOS process and are now shipping our second-generation, backwards-compatible products including RFX2401C and RFX2402C. We are in the process of launching several new pure CMOS-based RFeICs that serve major wireless protocols including WLAN 802.11a/b/g/n/ac, Bluetooth, ZigBee/ISM, and markets such as Smart Meters, Wireless Audio/Video and Home Automation, among others."

"These four fundamental patents provide full protection for our main architecture," said Mike Neshat, chairman and CEO of RFaxis. "Our disruptive RFeIC technology is now fully patented. We expect to have more patents granted in the coming weeks and months. Combining these patented architectures along with our in-house design methodologies and trade secrets, RFaxis is truly leading the way of 'Bridging the RF Gap' for the exponentially-growing wireless industry, as initially envisioned when we started the company four years ago."

For more information please visit www.rfaxis.com [1].

Posted by Janine E. Mooney, Editor

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