



FOR IMMEDIATE RELEASE

## Orca Systems Announces the Launch of *DRBT*<sup>™</sup>, a Dual Mode Bluetooth<sup>®</sup> RF and Modem Intellectual Property (IP) Core

*DRBT is the industry's smallest dual mode Bluetooth<sup>®</sup> RF and modem IP*

Poway, Calif. – August 1, 2011 – [Orca Systems, Inc.](#), a wireless technology licensing company, announced today the launch of *DRBT*, a dual mode Bluetooth<sup>®</sup> RF plus modem IP core, providing customers with revolutionary reductions in silicon area, low power and exceptional radio performance. With the launch of *DRBT*, Orca has achieved the industry's smallest dual mode Bluetooth RF and modem IP core, leveraging its revolutionary DSP-RF<sup>™</sup> platform. At less than 1.3 square millimeters of area for the RF transceiver and less than 1.4 square millimeters of area for the Bluetooth modem in 90nm CMOS, the remarkably small size of the *DRBT* core makes it ideally suited for System-on-Chip (SoC) integration. Additionally, *DRBT* scales as process geometry shrinks enabling integration at any CMOS process node and providing a simple cost reduction roadmap.

The proliferation of Bluetooth continues to grow through its adoption into a broad array of consumer electronics as well as the deployment of Bluetooth v4.0 low energy. New dual-mode devices will support both Bluetooth v4.0 and Classic Bluetooth technology, enabling emerging low energy applications while maintaining compatibility with today's Bluetooth devices.

"We are seeing strong demand for a silicon efficient Bluetooth RF and modem solution. With the establishment of our IP core, we are equipped to enable groundbreaking SoC designs for our customers," said Guruswami Sridharan, founder and CEO of Orca Systems. "*DRBT* provides customers with tremendous flexibility to create competitive SoCs, including the selection of CMOS process node and flexibility in the layout enabled by its ultra small silicon footprint."

*DRBT* includes the RF and modem functions for a dual mode Bluetooth v2.1 + EDR and Bluetooth v4.0 low energy standards. In addition to its small silicon footprint, *DRBT* features include:

- Orca's DSP-RF based sampling receiver
- Orca's SelfAlign<sup>™</sup> polar transmitter
- Channel codec functions
- Orca's DSP-RF based open loop frequency synthesizer
- Direct wideband modulation
- Integrated LNA
- Integrated T/R switch
- Self contained AGC and AFC
- Configurable serial or parallel packet interface
- Selectable reference frequency

(more)

DRBT is available now as a licensable IP core. A 90nm CMOS prototype IC and reference board based on DRBT is available for evaluation to select customers.

**About Orca Systems, Inc.**

Orca Systems is a technology company specializing in leading edge wireless semiconductor IP and chip design, implementing radio systems with innovative digital architectures. Orca's patented DSP-RF™ technology enables the use of digital circuits for RF and mixed signal designs in sub-micron CMOS process technology. The benefits of Orca's DSP-RF technology include superior radio performance, small silicon area, low power and design flexibility.

Orca is headquartered in Poway, California and has a development office in Bangalore, India. For further information please visit [www.orcasystems.com](http://www.orcasystems.com).

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