

For Immediate Release

Anokiwave Introduces the World's Most Advanced AESA Core IC Solution

San Diego, CA, 8 September 2015: Anokiwave, Inc., an innovative company providing highly integrated core IC solutions for mmW and AESA markets, today announced the worldwide release of the first in a family of X-band Silicon Radar Quad Core IC solutions for commercial radar and 5G communications markets. The AWS-0103 supports 4 radiating elements with dual beam Rx, single beam Tx, and includes 6-bit phase and 6-bit gain control. The part provides high input linearity in Rx mode and is intended to be used with a GaAs or GaN front end. Additional features include gain compensation over temperature, temperature reporting, forward power telemetry with programmable delay power sampling, and fast beam switching using on-chip beam weight storage registers that can be accessed via direct address lines. Silicon technology enables very high integration of functionality thus enabling planar antenna design at X-band with reduced system size, weight, and cost



“The increasing demand for data is forcing a migration to mmW frequencies. In addition to this market shift, Moore’s Law is enabling silicon solutions to become viable at mmW frequencies. In response to these market and technology shifts, Anokiwave has developed a family of silicon ICs that integrate multi-element beam-formers with Tx/Rx functionality into a single package.” states Robert Donahue, Anokiwave CEO. “We believe that these parts will set a new standard in the industry for AESA ICs”.

The Anokiwave AWS-0103 is a highly integrated TDD (time-division duplex) transmit-receive chip in a commercial QFN-style surface mount plastic package with dimensions of 7mm x 7mm x 0.9mm, easily fitting within the typical 15mm lattice spacing at 10 GHz. The IC is controlled through a 5-wire serial to parallel interface (SPI) bus.

Availability:

Anokiwave offers innovator kits and evaluation kits to customers for early access to the technology. The kits include boards with the AWS-0103 device, USB-SPI Interface module with drivers, and all required cables. Full production begins in January, 2016, with production-ready devices available June, 2016.

About Anokiwave:

Anokiwave is a cutting edge provider of highly integrated core chip solutions that enable emerging mm-Wave and AESA markets. Anokiwave’s creative system architectures and optimal selection of semiconductor technologies solve the toughest engineering problems.

Anokiwave is based in San Diego, California and operates design centers in Phoenix, Arizona and Boston, Massachusetts. Additional information can be found at www.anokiwave.com.

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