For Immediate Release

Anokiwave and Ball Aerospace Add Ku-Band Options to Portfolio of Flat-Panel Phased Arrays for Air, Land, and Sea Applications

Anokiwave and Ball Aerospace complete the portfolio of affordable flat panel phased array antennas with a Ku-Band antenna option that now allows customers a choice in selecting their service needs.

San Diego, CA, 27 May 2020: Anokiwave, Inc. and Ball Aerospace are continuing their collaboration to develop and enable the next generation of SATCOM terminal solutions adding a Ku-band option to the portfolio of flat panel phased array antennas. With the new portfolio of either Ku- or K/Ka-band antennas, customers have the flexibility to meet their broadband service needs.

Ball Aerospace Ku-Band SATCOM Phased Array Terminal Source: Ball Aerospace

Ball Aerospace brings an innovative approach to the design of either a Ku- or K/Ka-band system. Each antenna can be designed with the same footprint, allowing a consistent terminal baseplate, chasses, and interfaces that can be swapped based on the user's broadband service needs. Using the same architecture to target both Ku- and K/Ka-band allows development efficiency and cost advantages by leveraging the same manufacturing, test, and qualification infrastructure. Anokiwave continues to provide Ku-band Silicon SATCOM beamforming ICs that improve performance, reduce cost, simplify thermal management, and provide a host of unique digital functionality to simplify overall system design.

"The Anokiwave SATCOM IC portfolio offers Ball Aerospace options for both Ku- and K/Ka-band ICs with unmatched performance and features." said Abhishek Kapoor, Anokiwave vice president of Sales. "This is a unique first in the industry as Ball Aerospace can now deliver flat panel electronically steered antennas that meet performance, operating band, and total cost of ownership targets. Driving the delicate balance of cost and performance of the ICs has been a key challenge to the mass adoption of active antennas for satellite communications."

"The industry is starting to move to a model where SATCOM communications equipment is disaggregated from satellite operators and service providers," said Jake Sauer, vice president and general manager, Tactical Solutions, Ball Aerospace. "Ball has developed an antenna architecture with the Anokiwave ICs that gives customers the choice to target either Ku- or K/Ka-band broadband service for LEO, MEO, and GEO satellites and allows the end user the flexibility to meet both their short- and long-term service needs."

Ball Aerospace brings an innovative approach to flat panel electronically steered antennas with modular subarrays that can be tiled together to form an antenna that is optimized to the mission needs of the customer without the cost of antenna re-design. Ball Aerospace has completed over-the-air testing of both its Anokiwave IC enabled Ku- and K/Ka-band subarrays and has measured results showing transmit and receive performance over scan, switchable polarization, and tapering. These test results matched, and in most cases beat, modeled estimates.

Availability:
All Anokiwave SATCOM ICs and Ball Aerospace antenna products in Ku- and K/Ka-bands are released, available, and shipping in volume.

About Anokiwave:
Anokiwave is a cutting-edge provider of highly integrated IC solutions that enable emerging mm-Wave markets and Active Antenna based solutions. Anokiwave's creative system architectures and optimal selection of semiconductor technologies solve the toughest engineering problems.

Anokiwave operates design centers in San Diego, CA, Austin, TX, and Boston MA, with sales offices in Taipei, Taiwan, Boston, MA, and San Diego CA. Additional information can be found at www.anokiwave.com/satcom.

About Ball Aerospace:
Powered by endlessly curious people with an unwavering mission focus, **Ball Aerospace** pioneers discoveries that enable our customers to perform beyond expectation and protect what matters most. We create innovative space solutions, enable more accurate weather forecasts, drive insightful observations of our planet, deliver actionable data and intelligence, and ensure those who defend our freedom go forward bravely and return home safely. Go Beyond with Ball.® For more information, visit www.ball.com/aerospace or connect with us on Facebook or Twitter.

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