ISR signal processing brings performance to sensors and enables AI at the edge
JOHN MCHALE, EDITORIAL DIRECTOR

Military intelligence, surveillance, and reconnaissance (ISR) applications continue to make demands on signal-processing designers for more performance, better thermal management, and reduced size, weight, and power (SWaP).

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Radar and electronic warfare system modeling
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Active electronically steered phased array (AESA) systems provide the technology platform for multifunction radio-frequency (RF) systems. Today's systems can include a combination of radar, electronic warfare (EW), and communications functionality within the same physical system using a common antenna array front end.

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Counter-UAV radar selected to meet current U.S. Army needs

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Officials at Raytheon received a $191 million contract from the U.S. Army for Ku-band radio frequency radars. The contract fulfills an immediate U.S. Army operational need for a counter-unmanned aerial vehicle (counter-UAV) radar.

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U.S. Army AN/TPQ-50 radar systems contract won by SRC Inc.

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Officials at the U.S. Army Contracting Command at Aberdeen Proving Ground selected SRC Inc. to deliver AN/TPQ-50 radar systems.

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Hawkeye aircraft sensor development won by ManTech

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Officials at ManTech announced a $45 million four-year contract for technical advancement of sensors used by Naval Air Systems Command (NAVAIR) in Hawkeye aircraft (PMA-231) for the Naval Surface Warfare Center (NSWC) Crane.

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GaN-based radar from Lockheed Martin reaches technical milestone prior to delivery to MDA
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Radar, EW comms jammer pods for Growler aircraft announced by U.S. Navy
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The U.S. Navy awarded Demonstration of Existing Technologies (DET) contracts valued at about $36 million each to L3 Technologies Communications Systems West and Northrop Grumman Corp. Mission Systems in support of the Next Generation Jammer Low Band (NGJ-LB) capability.

C5ISR $597 million contract won by SAIC
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U.S. Navy officials selected Science Applications International Corp. (SAIC) for an indefinite-delivery, indefinite-quantity (ID/IQ) contract for the production and delivery of integrated C5ISR systems...
U.S. Army's AN/TPQ-53 radar to transition to GaN

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U.S. Army officials modified an existing contract with Lockheed Martin to insert Gallium Nitride (GaN) into the AN/TPQ-53 (Q-53) radar as part of the full rate production configuration.

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FMC enhancements for growing high-speed data needs

DYLAN LANG, SAMTEC

Field-programmable gate array (FPGA) technology has proven to be invaluable to embedded designers for many years. Often acting as an all-in-one solution, FPGAs negate the need for ASIC [application-specific integrated circuit] technology and reduce the cost of custom IP algorithms in silicon.

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Raytheon's AN/SPY-6(V) radar, continuing in testing to demonstrate its integrated air and missile defense capability against multiple targets, recently detected, acquired, and tracked multiple targets from the U.S. Navy's Pacific Missile Range Facility, Kauai, Hawaii.

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Lockheed Martin completed the integration of Telephonics' RDR-1700B radar onto a 74K aerostat for land and sea missions.

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Raytheon Co. (Waltham, Mass.) is advancing in the U.S. Army's Lower Tier Air and Missile Defense Sensor (LTAMDS) competition and now enters the Technology Maturation and Risk Reduction (TMRR) phase of the program.

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Controlling the electromagnetic spectrum on the battlefield is essential to mission success. A major factor in capturing and maintaining that control is having the most advanced radar and electronic warfare systems. Learn how RFSoC technology is bringing the needed performance and flexibility to the most demanding applications.

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