



AUGUST 2018



Bringing VxWorks support to Intel Xeon D-based EW systems

DENIS SMETANA, CURTISS-WRIGHT DEFENSE SOLUTIONS

The advantages that the Intel Xeon processor D-1500 product family brings to compute-intensive embedded electronic warfare (EW) system designs is clear. These 8-/12-/16-core devices deliver enhanced performance at low power, making them suitable for use on rugged open-architecture modules designed for deployment in harsh environment applications including electronic warfare (EW)...

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RF research to get support from new \$24 million contract, says AFRL

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Defense intelligence company Altamira Technologies has been awarded a contract by the Air Force Research Laboratory (AFRL) for \$24.6 million to provide next-generation radio frequency (RF) sensing technologies through advanced research and development of RF systems and subsystems.

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GaN ground radar now operational for Marine Corps

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Northrop Grumman reports that it has delivered the first AN/TPS-80 Ground/Air Task-Oriented Radar (G/ATOR) to the U.S. Marine Corps (USMC) that incorporates advanced high power and high efficiency gallium nitride

(GaN) antenna technology, further improving the system's operational capabilities.

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Cambridge Pixel radar display selected for integration into the CMS 330

MARIANA IRIARTE, TECHNOLOGY EDITOR

Lockheed Martin Canada officials tapped Cambridge Pixel to supply its radar acquisition and display technology for integration with the naval Combat Management System 330 (CMS 330).

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U.S. Army to employ Raytheon UAS and radar for counter-UAS missions

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Raytheon will supply the U.S. Army with its Coyote unmanned aircraft system (UAS) and KRFS (Ku-band radio frequency system) radar to help the Army counter the escalating threat of enemy unmanned aerial vehicles (UAVs) in the skies above the battlefield.

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U.S. Navy: Antisubmarine warfare technology passes two critical tests

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The U.S. Navy -- Program Executive Office Unmanned



and Small Combatants (PEO USC) Public Affairs -- recently announced the successful completion of two antisubmarine warfare (ASW) mission package testing milestones.

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Army selects **LONGBOW** to deliver radar hardware for **AH-64E** helicopters

MARIANA IRIARTE, TECHNOLOGY EDITOR

U.S. Army officials selected LONGBOW LLC -- a joint venture of Lockheed Martin and Northrop Grumman -- to provide LONGBOW Fire Control Radar (FCR) hardware for Apache AH-64E helicopters and will support the Army's lots 7 and 8 production contracts plus three international customers.

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U.S. Air Force awards **\$96.1 million** contract for decoy missiles

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Raytheon has won a \$96.1 million contract from the U.S. Air Force to produce 250 miniature air-launched decoy (MALD) missiles.

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Raytheon demos AESA x-band radar



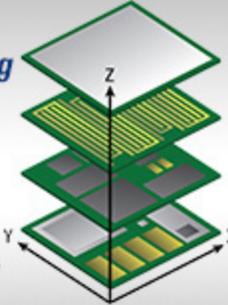
in front of military officials

MARIANA IRIARTE, TECHNOLOGY EDITOR

Engineers in the Intelligence, Information, and Services business unit at Raytheon demonstrated its Low-Power Radar's ability to provide precision approach guidance to landing aircraft from 15 nautical miles. U.S. Navy, Army, and Air Force officials in Brockville, Florida were present during the demo late June.

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U.S. Navy orders additional Sea Giraffe AMB radar units

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Saab has received an additional order from the U.S. Navy to supply the Sea Giraffe AMB multimode radar (MMR) system for the U.S. Coast Guard's newest class of ship, the Offshore Patrol Cutter (OPC).

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Army looks to SRC for next-generation electronic warfare systems

MARIANA IRIARTE, TECHNOLOGY EDITOR

U.S. Army officials tapped SRC, Inc. for a \$32 million contract to deliver next-generation, multimission electronic warfare systems.

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Learn how the new Intel® Xeon® E processors compare in performance for common radar algorithms with the Xeon D generation.



Click to download our "Xeon-D vs Xeon-E for Embedded Radar Applications" whitepaper



U.S. Navy receives 150th shipboard IFF antenna from BAE Systems

MARIANA IRIARTE, TECHNOLOGY EDITOR

To date, U.S. Navy officials received 150 OE-120 Identification Friend-or-Foe (IFF) antennas from BAE Systems used by sailors to identify friendly aircraft and vessels, and supports shipboard air traffic management systems for both IFF and secondary surveillance radars.

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Navy tasks QinetiQ to demo sidescan sonar technology

MARIANA IRIARTE, TECHNOLOGY EDITOR

Officials at the Naval Surface Warfare Center, Panama City Division (NSWC PCD), selected QinetiQ North America (QNA) to demonstrate advanced, low power, sidescan sonar technology under a contract that will leverage the company's DOLPHIN technology.

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The state of cyber resiliency metrics on embedded systems

DAVID SHEETS, CURTISS-WRIGHT DEFENSE SOLUTIONS

The ability of an embedded system to identify, prevent, and respond to cyberattacks intended to disrupt its operational capabilities is defined by measuring its level of cybersecurity and cyber resiliency. The concept of cyberattacks can refer to either electronic warfare (EW) like signal jamming or to cyberwarfare, for example, such as sending malformed packets to disrupt the system.

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L3, Leonardo, Ultra team up to offer ASW acoustic system

MARIANA IRIARTE, TECHNOLOGY EDITOR

Officials at L3 technologies, Ultra Electronics Command and Sonar Systems, and Leonardo will collaborate to offer an antisubmarine warfare (ASW) acoustic system based on Leonardo's new lightweight Ultra-Light SonicS Enhanced System (ULISSES) processor.

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Raytheon opens new radar development facility

MARIANA IRIARTE, TECHNOLOGY EDITOR

Raytheon officials announced the opening of a new radar development facility in Andover, Massachusetts. The \$72 million, 30,000 square foot facility features advanced automation technology to support complex radar testing and integration.

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CPI division will replace radomes on USAF B-52 aircraft

MARIANA IRIARTE, TECHNOLOGY EDITOR

Defense Logistics Agency (DLA) Aviation officials selected the Radant Technologies Division of Communications and Power Industries (CPI) for a two-year contract to replace existing radomes on the U.S. Air Force B-52 aircraft. The firm-fixed price contract is worth approximately \$4.1 million.

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An advertisement for 'Military Embedded Systems E-letter'. The left side features the text 'Military EMBEDDED SYSTEMS' in a stylized font over a background of green foliage. The right side contains the title 'The Military Embedded Systems E-letter' and the subtitle 'The best way to reach your customers with product profiles and sponsorships.' Below this is a preview of the e-letter content, including a circular diagram and a 'Click to Learn More' button.

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