



FEBRUARY 2022

The Avionics Design monthly E-newsletter from the editorial staff of militaryembedded.com covers hardware and software avionics designs and certification issues in the commercial and military avionics markets in the U.S. and Europe via the Military Embedded Systems partnership with Aviation Maintenance magazine and the Aerospace Tech Week show.



Army's Giorgio Bertoli to keynote MOSA Virtual Summit Feb 23

JOHN MCHALE, EDITORIAL DIRECTOR

Giorgio Bertoli, Assistant Director for the Spectrum Dominance and Intelligence portfolio, within the U.S. Army's C5ISR Center, will keynote the MOSA Virtual Summit, being held Feb 23 at 11 am Est. Other sessions include MOSA for Military Aviation Platforms, Bringing MOSA to Electronic Warfare Applications, and Applying a MOSA Strategy Across Multiple Domains.

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CONFRONTING THE CHALLENGE OF FAILING TO FOLLOW PROCEDURES

AVIATION MAINTENANCE MAGAZINE

More than three decades after a 737 ripped open over Hawaii and stunned the flying public with the dangers of human error in aircraft maintenance, the aviation industry is still challenged to contain that risk and keep crews and passengers safe in the air.

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SFF jamming system to equip F-16s following demo flights

EMMA HELFRICH, TECHNOLOGY EDITOR

The Leonardo Compact Jamming System (CJS) integrated in Terma's ECIPS-pylon underwent a series of flight tests with the two companies in early October of

2021. Officials claim that both companies are now ready to provide the integrated solution to potential customers.

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Next-gen avionics computers launched by HENSOLDT

EMMA HELFRICH, TECHNOLOGY EDITOR

Sensor and avionics solutions provider HENSOLDT announced it will be launching a family of avionics computers under the company's CAVION brand that are designed to expand the performance of existing computers for mission control on board various flying platforms.

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Airborne infrared self-protection systems to be supplied to UAE

EMMA HELFRICH, TECHNOLOGY EDITOR

Elbit Systems Ltd. announced that its subsidiary in the United Arab Emirates (UAE), Elbit Systems Emirates Ltd., won a contract valued at approximately \$53 million to supply Direct Infrared Countermeasures (DIRCM) and airborne Electronic Warfare (EW) systems for the Airbus A330 Multi-Role Tanker Transport aircraft.

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AAR Announces 10-year Extension of Component MRO Agreement with



IAMCO for Support of the NATO E-3A Fleet

AVIATION MAINTENANCE MAGAZINE

AAR announced a 10-year extension of its component maintenance, repair, and overhaul contract with International Aerospace Management Company (IAMCO), which is responsible for depot-level maintenance for the North Atlantic Treaty Organization's (NATO) E-3A AWACS aircraft fleet. The services will be performed at AAR's Component Repair facility in Amsterdam.

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Egypt's Apache helicopter fleet to undergo sensor system upgrades

EMMA HELFRICH, TECHNOLOGY EDITOR

Lockheed Martin received a \$102 million contract award to upgrade 25 of Egypt's AH-64D Apaches to the E-model version of the aircraft. This modernization for the Egyptian Air Force includes Lockheed Martin's Gen III Target Acquisition Designation Sight/Pilot Night Vision Sensor (Gen III TADS/PNVS) and the Gen III Day Sensor Assembly (Gen III DSA).

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Wind River to be acquired by Aptiv in \$4.3 billion deal

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Mobility-technology company Aptiv has agreed to acquire mission-critical software provider Wind River (Alameda, California) from private-equity firm TPG Capital for \$4.3 billion in cash.

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Calidus B-250 aircraft to be equipped with Intellisense Systems modular displays

EMMA HELFRICH, TECHNOLOGY EDITOR

Intellisense Systems Inc., provider of avionics, including displays, for various aircraft, won a contract to supply the large format primary flight display (PFD) for the Calidus B-250, a light attack combat and training aircraft.

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Hungarian Gripen fleet to undergo sensor and comms upgrades with Saab

EMMA HELFRICH, TECHNOLOGY EDITOR

The Hungarian Government Commissioner Office responsible for defense development and the Swedish Defence Materiel Administration (FMV) have completed the negotiations for the MS20 Block 2 capability upgrade to the Hungarian fleet of Gripen fighter aircraft. Saab will deliver the upgrade.

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E-scan radar delivery for German and Spanish Typhoons led by Leonardo

EMMA HELFRICH, TECHNOLOGY EDITOR

Leonardo announced that it has signed contracts with HENSOLDT which will see the company playing a role in the development and delivery of the Eurofighter Typhoon's European Common Radar System Mk1 (ECRS Mk1) E-scan radar, ordered by Germany and Spain.

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MQ-9 communications intelligence sensor pod suites to be delivered to France

EMMA HELFRICH, TECHNOLOGY EDITOR

The State Department has made a determination

approving a possible foreign military sale (FMS) to the Government of France of MQ-9 communications intelligence sensor pod suites and related equipment for an estimated cost of \$88 million.

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Switchblade 300 sensor-to-shooter kit designed for small UAS

EMMA HELFRICH, TECHNOLOGY EDITOR

AeroVironment, Inc. has introduced the Switchblade 300 sensor-to-shooter kit, a capability that is designed to enable operators to transfer target coordinates from AeroVironment's small unmanned aircraft systems (SUAS) – Puma 3 AE, Puma LE, Raven B or Wasp AE – to Switchblade 300 loitering missile systems.

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AI-powered sensor fusion for F-35 goal of Intelligent Artifacts contract

EMMA HELFRICH, TECHNOLOGY EDITOR

Intelligent Artifacts, company specializing in machine intelligence solutions for mission and safety-critical systems, has won an Air Force SBIR Phase II award to modernize the mission data file (MDF) build process for the F-35 Lightning II.

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SPONSORED WHITE PAPER

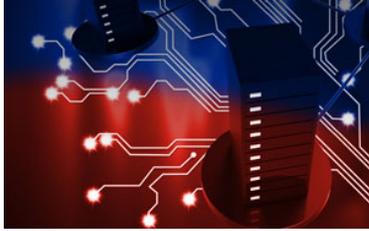
New Supercomputer Enables Rugged, Real-Time AI at the Edge

ONE STOP SYSTEMS (OSS)

The current generation of AI compute platforms fail to integrate and optimize high performance computing with compact, rugged form factors. They force program managers to trade performance for rugged design or vice versa.

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Anti-Tamper Benefits of Encrypted Helper-Data Images for PUFs

RAMBUS

PUFs are mixed-signal circuits which rely on variations unique to a specific chip to self-generate a digital “fingerprint.” Most PUFs require a “helper-data” image that is generated during the initial digitization process, also known as Enrollment.

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MOSA Virtual Summit: Applying open architectures in avionics, radar, electronic warfare, & C5ISR systems

Sponsored by: RTI

Date: February 23, 11:00 a.m. ET

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