



MAY 2021



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## Thermal mechanical breaker systems to support MQ-25 unmanned tanker

EMMA HELFRICH, TECHNOLOGY EDITOR

Astronics Corporation, provider of technologies for global aerospace, defense, and other mission critical industries, has won contracts by Boeing to supply CorePower aircraft power distribution units and custom-engineered exterior lighting for the MQ-25 unmanned aerial refueling program.

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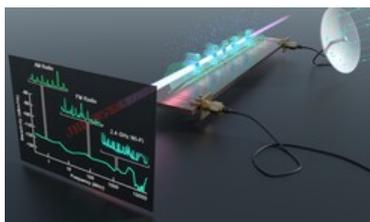


## EW contract for Defense Logistics Agency will contain RTOS from Green Hills Software

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Green Hills Software announced that its INTEGRITY-178 tuMP real-time operating system (RTOS) will be used in Terma North America's (Arlington, Virginia) next-generation family of electronic warfare (EW) controllers [the AN/ALQ-213(v5)] as part of Terma's recent \$306 million indefinite-delivery/indefinite-quantity (ID/IQ) contract from the Defense Logistics Agency (DLA)--Aviation (Warner Robins, Georgia).

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## Quantum receiver developed by Army researchers detects full RF spectrum

EMMA HELFRICH, TECHNOLOGY EDITOR

Army researchers at the U.S. Army Combat Capabilities Development Command (DEVCOM) have developed a

new quantum sensor capable of analyzing the full spectrum of radio frequency (RF) and real-world signals, creating new potential for soldier communications, spectrum awareness, and electronic warfare.

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## Chassis Manager Optimized for VITA 65/SOSA™ Profiles

The stock VITA 46.11-aligned WABGM0 Chassis Manager enables critical chassis control, maintenance, and security functions, and aligns with the SOSA Standard.



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## C5ISR system contract awarded to Kratos for national security customer

EMMA HELFRICH, TECHNOLOGY EDITOR

Kratos Defense & Security Solutions, Inc., a National Security Solutions provider, announced that it has recently received an approximate \$55 million, Single Award Indefinite Delivery, Indefinite Quantity (IDIQ) C5ISR product related contract from a National Security Customer.

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## Next-gen sonar suite to equip French Navy's ballistic-missile submarines

EMMA HELFRICH, TECHNOLOGY EDITOR

Thales has announced that with the launch of full-scale development of France's third generation of nuclear-powered ballistic-missile submarines (SNLE 3G), the company is developing a new sonar suite based on disruptive technologies.

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## BriteCloud miniature decoy equipped with jamming tech launched from MQ-



9

EMMA HELFRICH, TECHNOLOGY EDITOR

Following its testing and entry into service with the UK's Royal Air Force, Leonardo announced that its BriteCloud capability is now being evaluated for use by U.S. Armed Forces.

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## Pentek Announces SOSA Aligned Development Platform that Speeds Integration Tasks

The [Model 8256](#) is a 3U VPX development platform that is aligned to the SOSA Technical Standard and includes IPMI and connectivity for RF and optical interfaces. The system is ideal for application development with Pentek's Quartz® RFSoc data acquisition and processing boards. Pentek's SOSA aligned products facilitate interoperability, re-use, and rapid technology insertion, all consistent with the SOSA Consortium's approach and vision. > [View Video & Download Datasheet](#)



## SmartGlider weapon systems in development under Tawazun, MBDA partnership

EMMA HELFRICH, TECHNOLOGY EDITOR

Tawazun and MBDA announced that the companies have signed a head of terms agreement with the intent to cooperate in the field of smart guided weapon systems. The aim is to create a long-term partnership between Tawazun and MBDA, enabling the development of the SmartGlider weapon systems from design to production phase.

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## Hypersonics prioritized for modernization by Defense Department

EMMA HELFRICH, TECHNOLOGY EDITOR

Officials announced that the U.S. Department of Defense (DoD) has identified hypersonics as one of the highest priority modernization areas in response to adversaries

like Russia and China developing their own capable systems.

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## **EW from BAE Systems for U.S. Air Force F-15s begin low-rate initial production**

LISA DAIGLE, ASSISTANT MANAGING EDITOR

BAE Systems has received a \$58 million contract from Boeing to begin low-rate initial production (LRIP) of the F-15 Eagle Passive Active Warning and Survivability System (EPAWSS) -- an electronic warfare (EW) and countermeasures system -- for the U.S. Air Force.

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## **SCANTER 6000 X-band radar to equip Belgian, Netherlands navies**

EMMA HELFRICH, TECHNOLOGY EDITOR

Terma has announced that the company's SCANTER 6000 radar has been selected for the Belgian/Netherlands replacement MCMV program led by the Belgium Naval & Robotics consortium, composed of Naval Group and ECA Group.

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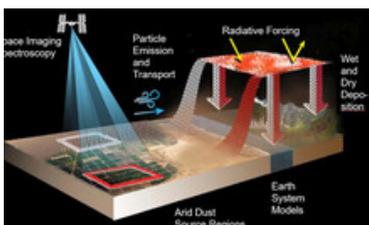


## **COVID-19 sensor in development with U.S. Army and DARPA**

EMMA HELFRICH, TECHNOLOGY EDITOR

Army researchers joined an 18-month effort led by the Defense Advanced Research Projects Agency (DARPA) to identify and combine a suite of technologies that would form a stand-alone bio-aerosol monitor capable of detecting SARS-CoV-2.

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## **Radiation-tolerant data recorders from Mercury Systems will head to International Space Station in 2022**

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Solid-state data recorders (SSDRs) built by Mercury

Systems will fly to the International Space Station in 2022, after selection by NASA's Jet Propulsion Laboratory (JPL) to provide for NASA's Earth Surface Mineral Dust Source Investigation (EMIT) science mission.

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SPONSORED WHITE PAPER

## How Can I Teach My Machine to Learn?

CURTIS-WRIGHT

In this white paper, we examine the supervised and unsupervised machine learning methods and the hybrid approach of semi-supervised machine learning. This paper also covers machine learning frameworks that simplify neural network creation, training and validation. Finally, we will examine hardware foundations for machine learning in rugged applications.

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## Cooling Electronics: Solving Military Thermal - Management Challenges

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