



## MAY 2022

The Avionics Design monthly E-newsletter from the editorial staff of [militaryembedded.com](http://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.



### Open systems streamline helicopter avionics upgrades

EMMA HELFRICH, TECHNOLOGY EDITOR

Military helicopter avionics upgrades like those for Future Vertical Lift platforms make data and modular-agnostic hardware a priority for defense electronics manufacturers. As systems and electronics evolve, many of these advances will have to comply with open architecture standards like the Future Airborne Capability Environment (FACE) and must leverage a modular open systems approach (MOSA) to ease cost and time-to-market pressure.

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### 2022 FACE Special Edition

MILITARY EMBEDDED SYSTEMS STAFF

Welcome to the FACE Special Edition, which details the technology and solutions being developed under The Open Group Future Airborne Capability Environment (FACE) Consortium. This magazine is the first of what will be an annual issue, highlighting editorial content on the FACE approach from the pages and website of Military Embedded Systems Magazine, as well as the products aligned and certified conformant to the FACE Technical Standard – all put together exclusively by our staff. Learn about it all in the 2022 FACE Special Edition.

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### Avionics for special ops wins Sierra Nevada a \$34 million contract mod



## with U.S. Air Force

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Sierra Nevada has won a \$34 million contract modification from the Air Force Life Cycle Management Center to outfit special operations versions of the Lockheed Martin C-130J four-engine aircraft with mission-critical secure data communications avionics systems.

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## Incorporating DO-326A security airworthiness into software-development life cycle

RICARDO CAMACHO, PARASOFT

DO-326A'S purpose is to provide a framework with objectives and process guidance in addressing intentional and unintentional security threats to aircraft systems.

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## MOSA-based flight computer from Collins Aerospace will ride on DEFiant X helicopter

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Collins Aerospace's Perigon flight-control computer will be a part of the Lockheed Martin Sikorsky-Boeing DEFiant X advanced utility helicopter, a finalist for the U.S. Army's Future Long-Range Assault Aircraft (FLRAA) competition.

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AVIONICS REPAIR/  
REPLACEMENT PROVIDERS  
KEEP UP WITH TECH TRENDS

## Avionics repair/replacement providers keep up with tech trends

AVIATION MAINTENANCE MAGAZINE

As the world's aircraft become more sophisticated, so too do the avionics that control them. This is why avionics repair/replacement providers are keeping up with technology trends that are changing the fundamentals of flight.

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## Helmet-mounted displays for F-16 pilots garner contract win for Thales

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Defense and aerospace contractor Thales has received an initial order to supply U.S. Air National Guard F-16 pilots with Scorpion helmet-mounted displays (HMD), under an agreement that will subsequently make the system available to NATO forces.

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## Adding new high-frequency capabilities to military avionics applications

TED PRIMA, TIMES MICROWAVE SYSTEMS

Radio frequency (RF) system manufacturers are creating advanced new system designs to accommodate extremely restricted space constraints and rising operating frequencies in military avionics applications.

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## **Military, commercial flight-simulation market to reach \$6.1 billion by 2025, study projects**

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The global market for military and commercial flight simulation is projected to reach \$6.1 billion by 2025, notching a compound annual growth rate (CAGR) of 3.9% over the analysis period, according to a new study by Global Industry Analysts, "Commercial and Military Flight Simulation -- Global Market Trajectory & Analytics."

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## **Field Aerospace wins contract to provide and modify new British Antarctic survey aircraft**

AVIATION MAINTENANCE MAGAZINE

Field Aerospace announced it has been awarded, as Prime Contractor, a contract by United Kingdom Research and Innovation (UKRI) to supply an aircraft for use by the British Antarctic Survey (BAS). The De Havilland DHC-8 aircraft will replace the four-engine DHC-7 aircraft in service with BAS since 1994 which was also modified by Field Aerospace, and includes a 3-year maintenance and support program.

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## **AI-based air traffic management in development with SGS**

EMMA HELFRICH, TECHNOLOGY EDITOR

SparkCognition Government Systems (SGS) has announced its partnership with SkyGrid and LIFT Aircraft Inc. The companies will apply artificial intelligence (AI) and blockchain technology to manage the airspace for autonomous vehicles, specifically HEXA, LIFT's electric vertical take-off and landing (eVTOL) aircraft.

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## **Open-architecture Link-16 hardware to enable JADC2 for H-1 fleet**



EMMA HELFRICH, TECHNOLOGY EDITOR

Northrop Grumman Corporation has won a \$65 million contract by the U.S. Navy to execute the full-rate production of Link-16 for the U.S. Marine Corps AH-1Z and UH-1Y aircraft, which will involve the integration of data link hardware across the fleet.

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## Unlocking the Value of AI in Defense

ADLINK TECHNOLOGY

AI is viewed as highly important to defense organizations' strategy now and in the future. AI-enabled solutions help defense organizations improve their mission effectiveness and decision-making through both military-specific and noncombat-focused applications.

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## FACE 3.1 Enhancements. What Could Possibly Go Wrong?

COLLINS AEROSPACE, LDRA TECHNOLOGY, LYNX SOFTWARE TECHNOLOGIES

This white paper is an educational piece jointly penned by a defence systems OEM, a tier one RTOS provider and a FACE Verification Authority. It introduces the principles and benefits of the FACE standard, how FACE systems are constructed and explains the path to achieve conformance to the standard.

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# JADC2 and Data-Centricity: Creating a Joint Posture of Deterrence

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