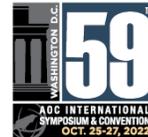


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SPECIAL REPORT

MOSA and JADC2 driving innovation in military vetronics applications

JOHN MCHALE, EDITORIAL DIRECTOR

Vetronics systems today are increasingly focused on C4ISR [command, control, communications, computers, intelligence, surveillance, and reconnaissance], interoperability with other battlefield elements, and the capability to be optionally unmanned if necessary. They are also more likely to be built on open architectures as the U.S. Department of Defense (DoD) continues the push toward a modular open systems approach (MOSA) in upgrades and new designs.

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TECHNOLOGY UPDATE

Using sensors and ML to prevent warfighter injury

LISA DAIGLE, ASSISTANT MANAGING EDITOR

A team of researchers at the Johns Hopkins Applied Physics Laboratory (APL – Laurel, Maryland) is developing a system to monitor physical fatigue and possible injury in soldiers in near-real time using body-worn sensors and machine learning (ML) algorithms.



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MIL TECH INSIDER

DAS or NAS? Making the right data-storage decision for deployed systems

STEVEN PETRIC, CURTISS-WRIGHT

For many years, military-system designers relied solely on direct attached storage (DAS) devices when they needed to deploy data storage on military platforms. These devices are embedded within or directly attached to the computers, such as single-board computers (SBC) on a platform.

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MIL TECH TRENDS

AI driving major changes in DoD test and measurement for radar/EW

DAN TAYLOR, TECHNOLOGY EDITOR

Radar and electronic warfare (EW) are challenging applications for designers of test systems. The only constant seems to be change in technologies, tactics, and countermeasures. Industry players believe that artificial intelligence (AI) may hold the key to driving the effectiveness of radar and EW.

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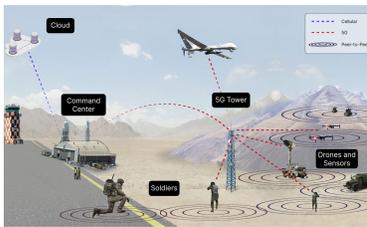
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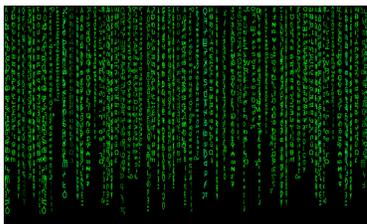
SPECIAL REPORT

IoT, AI, and the future battlefield

ADAM FISH, DITTO

Powered by artificial intelligence (AI), a massive military Internet of Things (IoT) promises a host of battlefield benefits in such areas as unmanned surveillance and targeting, situational awareness, soldier health monitoring, and other critical applications. However, major data and communications challenges must be overcome first.

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INDUSTRY SPOTLIGHT

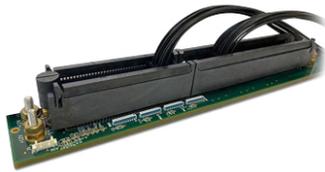
Securing the software supply chain by modernizing legacy systems

BOB STEVENS, GITLAB

Now more than ever, federal agencies within the U.S. Department of Defense (DoD) must develop software capabilities that are compatible with legacy technology while maintaining and meeting strict security needs that protect proprietary code and networks.

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DFI, INC.

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A Measurement Summary of Distributed Direct Sampling S-Band Receivers for Phased Arrays

ANALOG DEVICES

This article details performance measurements vs. predictions of a 16-channel S-band direct sampling receiver design. The design is based on recently released direct sampling analog-to-digital converters (ADCs) clocked at 4 GSPS and sampling in the second Nyquist zone of the converter.

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