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MIL TECH TRENDS

Emerging threats drive RF and microwave component design trends for electronic warfare

SALLY COLE, SENIOR EDITOR

To address emerging electronic warfare (EW) threats, which are becoming increasingly more agile and moving up the spectrum, radio frequency (RF) and microwave component designs are also evolving.

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Top 10 military electronics stories of 2020

JOHN MCHALE, EDITORIAL DIRECTOR

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SPECIAL REPORT

Sensor Open Systems Architecture (SOSA): Enabling the next generation of flexible and adaptable radar systems

DENIS SMETANA, CURTISS-WRIGHT

In order to keep up with the continued acceleration of new technology and to be able to protect the warfighter from the latest threats, it is essential that we can turn our deployed platforms into adaptable entities that can evolve over time and are not static. The SOSA [Sensor Open Systems Architecture] Technical Standard is the next major step in realizing this goal.

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MIL TECH VIRTUAL TOOLBOX

Solving cybersecurity, AI, and open architecture challenges in defense electronics

JOHN MCHALE, EDITORIAL DIRECTOR

In this episode of the Mil Tech Virtual Toolbox, we spoke with Duc Huy Tran, VP of Global Marketing with Aitech Systems about tools for enabling cybersecurity in military embedded systems and how artificial intelligence (AI) and open architecture initiatives such as the Sensor Open Systems Architecture (SOSA) are changing the defense electronics landscape.

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GUEST BLOG: What's the difference between IFF and Micro IFF?

DR. JIM DAVIS, uAVIONIX

The Fog of War: When opposing forces battle for domination, battlefield loss is always a concern. Sometimes it arises as intended from enemy action. Another kind of attrition, though, might be described as "collateral damage" or "fratricide," when one side mistakenly kills or destroys one of its own. Fratricide arises from a variety of causes, among them loss of situational awareness, an unexpected encounter where rapid identification is not possible, or simply being in the wrong place at the wrong time.

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Mil Tech Virtual: Solving cybersecurity, AI, and open architecture challenges in defense electronics

AITECH SYSTEMS

In this episode of the Mil Tech Virtual Toolbox, we spoke with Duc Huy Tran, VP of Global Marketing with Aitech Systems about tools for enabling cybersecurity in military embedded systems and how artificial intelligence (AI) and open architecture initiatives such as the Sensor Open Systems Architecture (SOSA) are changing the defense electronics landscape.

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Software Defined Radio Handbook - 14th Edition

PENTEK

This handbook shows how DDCs (Digital Downconverters) and DUCs (Digital Upconverters), the fundamental building blocks of SDR, can replace legacy analog receiver and transmitter designs while offering significant benefits in performance, density and cost.

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Degraded Visual Environment (DVE) Meeting the Challenge

ABACO SYSTEMS

Learn more in our whitepaper which examines the nature of DVE challenges and some promising solutions and innovations that Abaco is actively working on, by bringing decades of embedded expertise to bear on the challenges posed by Degraded Visual Environments.

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Chassis Managers: Monitoring Chassis Health and VPX Boards in Military Systems

ELMA ELECTRONIC

Monitoring the health, power, and cooling of VPX boards used in all military applications, including radar, electronic warfare (EW), communications, sensor processing, etc., is just as important as keeping an eye on the performance and capability of the end system.



How Will Sosa 1.0 Impact Radar & Electronic Warfare Designs

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