CYBERSECURITY UPDATE

Quantum radio may outperform other types of communications within harsh environments

SALLY COLE, SENIOR EDITOR

Quantum radio can provide communications within environments - whether underwater, underground, or indoors - that stymie GPS and other forms of communications.

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VITA 48.8 Air Flow Through Cooling standard lowers SWaP-C on deployed VPX systems
DAVID VOS, LOCKHEED MARTIN & IVAN STRAZNICKY, CURTISS-WRIGHT DEFENSE SOLUTIONS

The ongoing challenge for commercial off-the-shelf (COTS) system developers is to balance the competing approaches to reduce the system’s size, weight, power, and cost (SWaP-C) while trying to deploy the most modern technologies.

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SPECIAL REPORT
Radar on the high seas
SALLY COLE, SENIOR EDITOR & JOHN MCHALE, EDITORIAL DIRECTOR

Modern maritime radar systems for missile defense and navigation have become more precise by leveraging commercial signal processing and radio frequency (RF) components in modular designs that enable commonality with clear technology refresh paths.

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Modernizing a serial processing code to obtain optimal performance on an OpenVPX digital signal processing module

BEAU PAISLEY, ARM & TAMMY CARTER, CURTISS-WRIGHT DEFENSE SOLUTIONS

Serial algorithms can be evolved to a scalable, multithreaded, multiprocess implementation using ubiquitous and well-established high-performance computing (HPC) programming frameworks such as OpenMP and MPI. Such techniques are used in compute-intensive defense, aerospace, and industrial applications.

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INDUSTRY SPOTLIGHT

GaN tech driving radar and electronic warfare designs

JOHN MCHALE, EDITORIAL DIRECTOR

In the following Q and A with Roger Hall, General Manager, Defense and Aerospace for Qorvo he discusses GaN's impact on these applications, reduced size, weight, and power (SWaP) requirements, how automotive radar innovation is influencing military designs, as well as the buzz on the International Microwave Symposium (IMS) show floor this summer.

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ARTICLE

Bringing the benefits of safety-certifiable COTS to the system level

RICK HEARN, CURTISS-WRIGHT DEFENSE SOLUTIONS

Avionics integrators and aircraft certification agencies now understand and accept that certifiable commercial off-the-shelf (COTS) assemblies can be designed with a complete set of DO-254 and DO-178B data artifacts that will support system and aircraft certification.

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Addressing the challenges of low latency video system requirements for embedded applications

ABACO SYSTEMS

Video processing is ubiquitous in our everyday lives, and dates back nearly a century (electronic image transmission was first demonstrated 90 years ago). Transmission of images by digital means is 48 years old and commercial digital video 30 years old. As we have seen management of latency in systems reliant on video sensors is a critical design driver. It is only through the use of the right tools and techniques that latency challenges can be overcome.

Avionics Safety Certification Challenges with UAVs

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