MARKET ANALYSIS

Electronics funding for radar, electronic warfare, C4ISR continues to rise

JOHN MCHALE, EDITORIAL DIRECTOR

The defense market for embedded electronics designers continues to be a growth area. While increased use of commercial off-the-shelf (COTS) technology has lowered the cost and therefore the spending in unmanned systems, it is fueling more innovation, especially in small platforms.

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INDUSTRY SPOTLIGHT

No room for compromise in supply chain security: New DoD initiative establishes benchmark for strategic ICT sourcing

PHIL GALLAGHER, AVNET

In response to the growing nexus between physical risk (counterfeits) and cyber risk (infiltration of systems and exfiltration of data) the U.S. Department of Defense (DoD) has introduced a new policy adding security as a fundamental pillar of federal acquisition and supply chain risk management.

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TECHNOLOGY UPDATE

Tackling Moore's Law goal of DARPA initiative

MARIANA IRIARTE, TECHNOLOGY EDITOR

Defense Advanced Research Projects Agency (DARPA) officials kicked off the Electronics Resurgence Initiative (ERI) summit in July 2018 by selecting teams to tackle the three technology pillars ? materials/integration, architectures, and design ? that will ultimately address Moore's Law.

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UNIVERSITY UPDATE

Boron arsenide whisks heat away from electronics

SALLY COLE, SENIOR EDITOR

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MIL TECH INSIDER

Advances in switching bring rugged
1/10 GbE networking to embedded platforms
MIKE SOUTHWORTH, CURTISS-WRIGHT DEFENSE SOLUTIONS

As advanced network features and increasing speeds are added to next-generation rugged embedded switches, these products become even more useful for military applications by helping to reduce system size, weight, power, and cost (SWaP-C) through a reduction of cabling and the use of Layer 3 switches for basic network routing duties.

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SISTER PUBLICATION - EMBEDDED COMPUTING DESIGN

Fast Localization of Errors in Complex Automotive Software Development Projects
BRANDON LEWIS, EDITOR-IN-CHIEF

In this Q&A with Torsten Mosis and Sebastian König of Elektrobit Automotive, the pair discuss mechanisms for detecting costly bugs in complex automotive software supply chains before they disrupt development projects.

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Most organizations do not consider production test a top priority, but it is a necessity to prevent major quality issues in the products that represent the company brand in the hands of customers. The costs, however, can be significant and are often greatly misunderstood, especially when there’s no easy way to quantify the positive business impact of high-quality products or shortened time to market.

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Navy combat, C4ISR [command, control, communications, computers, intelligence, surveillance, and reconnaissance], and machinery control systems are characterized by a wide range of programs, all of which have their own system architecture, configuration, and composition, mostly program-specific and irrespective of adjacent systems.

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You can test embedded control systems more efficiently with the powerful method of hardware-in-the-loop (HIL) simulation. Safety, availability, or cost considerations can make it impractical to perform all the necessary tests with the complete embedded control system. Using HIL simulation, you can simulate the parts of the system that pose these challenges.

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**Signal Integrity and Simulation Considerations in Backplane Designs for Military Systems**

ELMA ELECTRONIC

Electrical interfaces and connectors today face signal integrity challenges which weren't a real concern 10 to 15 years ago. This is especially true for military systems such as radar, electronic warfare, and signals intelligence (SIGINT) that continue to grow in complexity.

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