Perspectives

Life cycle management, semiconductor re-creation, and mitigating counterfeit parts

JOHN MCHALE, EDITORIAL DIRECTOR

In the following Q and A with Daniel Deisz, Director of Design Technology at Rochester Electronics, he discusses how Department of Defense (DoD) planners need to build in life cycle management costs in projects up front, the advantages of authorized re-creation or porting of semiconductor components for extending the life of parts, the importance of testing for aftermarket solutions, and how best to mitigate the spread of counterfeit components in the defense supply chain.

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MIL TECH INSIDER

Milestone in abstracting the hardware: Realizing the promise of FACE

MARK GROVAK, CURTISS-WRIGHT DEFENSE SOLUTIONS

The Future Airborne Capability Environment (FACE) Consortium, part of The Open Group, was formed to establish a standard common operating environment to support portable capability-based applications across Department of Defense (DoD) avionics systems.

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Advances in artificial intelligence (AI) are enabling significant leaps in science and technology, including the fields of digital signal processing (DSP) and radio frequency (RF) systems. Methods nominally labeled as "AI" have been applied to radio systems for decades, but always with the goal of optimizing the control plane of a hand-engineered system (e.g., "smart radios" or "cognitive radios").
SPECIAL REPORT

Radar and electronic warfare system modeling

HONGLEI CHEN & ROB GRAESSLE & RICK GENTILE, MATHWORKS

Active electronically steered phased array (AESA) systems provide the technology platform for multifunction radio-frequency (RF) systems. Today’s systems can include a combination of radar, electronic warfare (EW), and communications functionality within the same physical system using a common antenna array front end.

MIL TECH TRENDS

Portable, reliable, and efficient concurrency: Ravenscar Ada tasking and the FACE safety profiles

DR. BENJAMIN BROSGOL & DR. PATRICK ROGERS & DR. DUDREY SMITH, ADACORE

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