EDITOR'S PERSPECTIVE

Implementing a common architecture for military systems

JOHN MCHALE, EDITORIAL DIRECTOR

They?re playing together nicely – the Army, Navy, and Air Force, that is – in their efforts to bring a common architecture to electronic systems across all three services. These efforts are resulting in three main initiatives: the Sensor Open Systems Architecture (SOSA); Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR)/Electronic Warfare (EW) Modular Open Suite of Standards (CMOSS); and the Hardware Open Systems Technology (HOST).

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BEST IN SHOW AWARDS

Best in Show awards selected at WEST 2019

MILITARY EMBEDDED SYSTEMS

Military Embedded Systems is excited to announce today the winners of our Best in Show Award contest, which we?re holding this week for our supporters exhibiting at the 28th annual WEST 2019 naval conference and exposition (going on now – January 13-15 – at the San Diego Convention Center, CA).
SPECIAL REPORT

Ballistic missile radars pushed to detect widening range of threats

SALLY COLE, SENIOR EDITOR

As adversaries develop missile technology to attack the U.S. in ways that can challenge our missile defense - such as conventional and nuclear intercontinental ballistic missiles, sea-launched land-attack missiles, hypersonic weapons, and space-based missiles that orbit Earth - it's critical to have radar systems capable of providing early detection.

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from Rockwell Collins with the aim of addressing cybersecurity concerns involving unmanned aerial systems (UASs), more commonly called drones.

Extreme Engineering Solutions (X-ES)
Extreme Engineering Solutions? XPand6215 is an Intel® Xeon® D-1500 Processor-Based Rugged Small Form Factor (SFF) COTS System with Xilinx Kintex® Ultrascale® FPGA

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JENNIFER KEENAN, MERCURY SYSTEMS

Today's autonomous and artificial intelligence (AI) military systems process an ever-growing amount of sensor data. To handle this extreme workload, system architects must design boards using the fastest FPGA [field-programmable gate array] devices and Intel multicore processors.
Modern-day medical applications have a wide spectrum of needs, from the demanding computing requirements of optical imaging technologies - such as magnetic resonance imaging (MRI), optical coherence tomography (OCT), X-ray computed tomography (CT), computed axial tomography (CAT) scans, and 3D ultrasounds - to the compact form factor and low power consumption necessary for mobile diagnostic equipment.

SISTER PUBLICATION - PC104 & SMALL FORM FACTORS

The concept of modular designs in small-form-factor (SFF) electronic systems poses interesting challenges to equipment suppliers who feed the embedded computing market's demand for smaller, more cost-effective solutions.
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Military Embedded Systems will be highlighting the best products and solutions at the defense electronics industry's top trade shows across the US and Europe.

- Build publicity around your products at the event
- Get recognized by our audience of Defense Prime Contractors, and System Integrators, and to Embedded COTS Suppliers

Winners will be announced at the respective events.

Register Here +

SPONSORED WHITE PAPER
Reducing Risk and Accelerating Time to Market with Turret Aiming and Stabilization - The Value of Integrated Stabilization Systems
CURTISS-WRIGHT DEFENSE SOLUTIONS

Curtiss-Wright aiming and stabilization solutions have been successfully incorporated into military
programs and platforms for more than 30 years. They are field-proven in deployments around the
world and qualified against key military standards. This white paper discusses the process of
designing a robust, reliable, and high-performance turret drive system from the ground up while
reducing time, cost, and the risk to your program.

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