SPECIAL REPORT

Cyberwarfare: Battlefield precursor for kinetic attacks?

SALLY COLE SENIOR EDITOR

The cyber domain is playing a more visible role in offensive military operations, but serious vulnerabilities exist within weapons systems that must be addressed today to avoid being rendered useless via cyberattacks during future battles.

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MIL TECH TRENDS

Enabling SWaP-optimized EW solutions through accurate FPGA power modeling

MARIO LAMARCHE, MERCURY SYSTEMS

Modern electronic warfare (EW) systems, especially those for use in harsh SWaP-constrained environments, must not only include high-performance processing elements, but also the technology to cool these high-power devices. These challenges are particularly relevant in the design of compact FPGA [field-programmable gate array] modules that are at the core of next-generation systems. In order to stay ahead of adversaries and ensure control of the electromagnetic spectrum (EMS), it is critical to leverage the latest device technology. However, each generation of new FPGA devices comes with higher processing density, which brings more thermal-management challenges.

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MIL TECH INSIDER

Your flying taxi is here

RICK HEARN, CURTISS-WRIGHT DEFENSE SOLUTIONS
The flying car: From The Jetsons to Blade Runner to Star Wars, the idea of escaping the traffic jam down on the ground and cruising through the sky has always seemed a promise too far out of reach to be real. Now, thanks to parallel advancements in battery technology and autonomous vehicles resulting from Tesla and other pioneering electric automobile manufacturers, we are rapidly approaching the era of the unmanned flying taxi.

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GUEST BLOG
How Ethernet is key to VICTORY
RONEN ISAAC, MILSOURCE

Adding or enhancing new command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) and electronic warfare (EW) technologies in armed forces’ tactical ground vehicles has historically been done through a “bolt-on” approach. Communications systems have traditionally been independent, siloed systems that lacked integration, futureproofing and as importantly, economies of size, weight, power, and cost (SWaP-C).

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MIL TECH TRENDS
Fitting AI under the SWaP umbrella
MARIANA IRIARTE, TECHNOLOGY EDITOR

Reduced size, weight, and power (SWaP) requirements are also impacting artificial intelligence (AI) and machine learning (ML) designs.

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SISTER PUBLICATION - PC/104 AND SMALL FORM FACTORS

Examining key attributes essential to modular SFF designs
STEVE GUDKNECHT, ELMA ELECTRONIC

The new generation of VPX protocols are here and the next generations are on the horizon. The exciting world of high speed has arrived and before we know it today's technology will be superseded. VPX is "evolving." The next generation of PCIe and Ethernet will add more complexities to the VPX signal channel. We are seeing data rates increase exponentially and the evolution of VPX has begun.

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TECHNOLOGY UPDATE

Navy research vessel upgrades tech to continue legacy of ocean expedition
MARIANA IRIARTE, TECHNOLOGY EDITOR

Military Embedded Systems is excited to announce today the winners of our Best in Show Award contest, which we held for our supporters exhibiting at the 2019 IEEE MTT International Microwave Symposium (IMS) 2019 conference and exposition in Boston. Contest winners ? drawn from military embedded systems exhibitors at the event ? are recognized for the improved performance and innovation they bring to military electronic systems.
applications such as radar, electronic warfare as well as for embedded computing and RF & microwave solutions.

CONTEST
Submit Your Product Entries for the Best In Show Awards

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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.

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SPONSORED WHITE PAPER
Strategies for Deploying Xilinx's Zynq UltraScale+ RFSoC

PENTEK

On February 21st, 2017, Xilinx announced the
introduction of a new technology called RFSoC with the rather dramatic headline ?Xilinx Unveils Disruptive Integration and Architectural Breakthrough for 5G Wireless with RF-Class Analog Technology.?  

SPONSORED WHITE PAPER  
Using Software Full Disk Encryption and Disk Partitioning to Protect and Isolate Network Attached Storage Functions  
CURTISS WRIGHT  
Through disk partitioning and commercial off-the-shelf (COTS) data-at-rest (DAR) encryption, this paper proposes a network attached storage solution that reduces risk of data loss, corruption, and accessibility if intercepted.  

SPONSORED WHITE PAPER  
AI for Embedded Defense is Here  
ABACO SYSTEMS  
An armed Humvee is moving at night thru a smoke-filled, urban battlefield. Using multiple displays, the crew has a 360° view that is daylight clear, delivered by an imaging system fusing data from optical, infrared, lidar, and radar sensors.  

SPONSORED ARTICLE  
COTS, SOSA, and Open Architectures - The New Space Race Podcast  
WIND RIVER  
Today, multi-national corporations and startups alike are addressing the emerging sector of commercial spacecraft. Known as ?new space,? it is where companies are introducing new designs that propel them at the forefront of technological advancement in areas such as 5G networking and big data imaging.
Leveraging Open Standards and C4ISR for Multi-domain Challenges in Modern Warfare

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