MIL TECH TRENDS

SDR for the rapidly evolving demands of test and measurement

REZA MOHAMMADI, NEELAM MUGHEES, AND GHOZALI SUHARIYANTO HADI

Test-and-measurement equipment manufacturers must ensure that their product can help their customers accelerate their testing process and expand their testing capabilities, in order to shorten their time to market, reduce costs (as fewer pieces of testing equipment would be needed), and gain a better return on investment (ROI) on their existing testing equipment.

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SPECIAL REPORT

Creating a trusted platform for embedded security-critical applications

RICHARD JAENICKE AND STEVE EDWARDS

Security-critical applications, such as cross-domain solutions (CDS), require a secure, trusted platform on which to execute, spanning software, firmware, and hardware. The lowest layer that the application interacts with directly is a trusted operating system (OS). Trust in
the OS is dependent on two factors: its robustness from a security perspective, and assurance that the OS was both loaded and configured correctly and never tampered with. OS trust also depends partly on trusted pre-OS functionality, such as secure boot firmware that executes before the OS.

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**TECHNOLOGY UPDATE**

**Dominating the electromagnetic spectrum requires processing and AI innovation**

EMMA HELFRICH, ASSOCIATE EDITOR

Efforts to dominate the electromagnetic spectrum (EMS) in the military arena are moving forward as manufacturers develop innovative technologies to find actionable needles in the crowded electromagnetic intelligence haystack. Cognitive capabilities, artificial intelligence (AI), and similarly cutting-edge developments have opened a new chapter in electronic warfare (EW), and so too has the need to keep pace with adversarial advancements.
SPECIAL REPORT

**Securing military embedded systems is a giant challenge**

SALLY COLE, SENIOR EDITOR

Updating and patching security vulnerabilities to limit the attack surface for the military's embedded systems – especially legacy ones – can be a daunting task.

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GIVING BACK

Giving Back — Operation Care and Comfort

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Each issue, the editorial staff of Military Embedded Systems will highlight a different charitable organization that benefits the military, veterans, and their families. We are honored to cover the technology that protects those who protect us every day. To back that up, our parent company – OpenSystems Media – will make a donation to every group we showcase on this page.

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FROM THE EDITOR

Mergers, markets, missing friends

JOHN MCHALE, EDITORIAL DIRECTOR

One impact of the COVID-19 pandemic has been a decrease in mergers and acquisition (M&A) activity in the defense industry – and to some respect others – at least in the beginning of it all, when everyone was shutting down and didn’t know what to expect from the crisis. Folks were sheltering in place and in lockdown across the globe, not exactly an environment conducive to multimillion and multibillion-dollar acquisitions. Deals like that so often rely on face-to-face interaction.

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Ethernet and SMBus combine to deliver data and power management on a single platform

RONEN ISAAC

Because customers need to simplify and economize on space, many networking companies are being asked to move beyond traditional networks and look at ways to combine networking and power management. You've got devices that need to share data, but they also need to be powered. If you are looking at a mobile military platform, Power over Ethernet (PoE) simplifies cabling and reduces the number of devices needed on a platform.

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Cybersecurity for the Intelligent Edge: A Microweb Tech Series

WIND RIVER

According to IDC, there will be an estimated 42 billion connected devices by 2025. Each of these devices represents a point of entry that can be exploited by a cyberattack. For devices and systems with safety-critical functionality, a security breach can have catastrophic consequences. Security becomes even more paramount than safety.

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