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RF & microwave innovation enables military 5G solutions

JOHN MCHALE, MANAGING EDITOR

RF and microwave solutions are a critical ingredient in the U.S. military's plans to adapt fifth-generation wireless technology, or 5G, as the technology will be essential to create more tools for the joint forces.

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\$1.1 billion Ukraine package includes UAS radars, comms and surveillance systems

DAN TAYLOR, TECHNOLOGY EDITOR

The U.S. Department of Defense has announced a \$1.1 billion package in additional security assistance for Ukraine that includes funding for UAS radars, comms and surveillance systems, and more.

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Multi-INT and SOSA: A consideration of next steps

C. PATRICK COLLIER, ASPEN CONSULTING GROUP, AND DENIS SMETANA, CURTISS-WRIGHT

Multiple intelligence (Multi-INT), sometimes referred to as multi modality, is a popular term used in recent years to describe C5ISR [command, control, computers, communications, cyber, intelligence, surveillance, and reconnaissance] applications in which data obtained from disparate sensing sources is fused together to derive new information and operational insights.

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Army goes deep into VR/AR for



training and combat

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The U.S. Army is putting considerable resources and time into virtual-reality (VR), augmented-reality (AR), and mixed-reality (MR) equipment and training that is intended to make troops on the ground safer and better equipped.

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Massive data throughput realized

Mercury's new [Model 5560](#) COTS 3U VPX SOSA aligned coprocessor board fueled by Xilinx® Versal® HBM is an innovative combination of high-bandwidth memory, equally substantial DSP processing engines, high-speed 100 GigE interfaces and the Navigator® design suite for massive data throughput critical for applications in adaptable artificial intelligence and electronic warfare where low latency is required for real-time decision-making.

> [Download Datasheet](#)



C5ISR contract worth as much as \$1.5 billion signed between DoD, Leidos

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Leidos won a prime task order to provide the U.S. Department of Defense (DoD) with a suite of command, control, computers, communications, cyber, intelligence, surveillance, and reconnaissance (C5ISR) tools for insertion across the services; the contract holds a ceiling value of approximately \$1.5 billion if all options are exercised.

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JADC2 and the Kill Web

RAY ALDERMAN, VITA TECHNOLOGIES

If you have been a fervent reader of these Kill Web articles, you know that the Army has been connecting their sensors and weapons together into a tactical network under their IBCS initiative (Integrated Battle Command System). The Navy has been secretly connecting their ships and planes together with their CEC program (Cooperative Engagement Capability). The same goes for the Air Force's planes under their ABMS

initiative (Advanced Battle Management System) and the Space Force's satellites (SF-ABMS).

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SOSA's rubber is meeting the road in rapid system development

JOHN ORLANDO, EPIQ SOLUTIONS, AND TRAVIS DOLL, SCIENS INNOVATIONS

Using SOSA aligned components, a complete software-defined radio (SDR) solution was created for a TSOA-ID event in a little over two weeks, representing up to a 10-time reduction in cost and schedule compared to solutions developed without the use of well-defined open standards. It's an open road for the development of improved technologies in military and defense applications.

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U.S. Army awards Elbit Systems America \$107 million night-vision contract

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Elbit Systems of America won a production order from the U.S. Army worth approximately \$107 million to supply enhanced night vision goggle – binocular (ENVG-B) systems, spare parts, logistics support, and test equipment.

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L3Harris to acquire Viasat's tactical data link business, expand JADC2 offerings

LISA DAIGLE, ASSISTANT MANAGING EDITOR

L3Harris Technologies will purchase Viasat's tactical data link (TDL) business for roughly \$1.96 billion, a move L3 Harris officials say enables the company to expand resilient communication and networking capabilities to a larger user base across multiple domains.

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Anti-aircraft artillery radars delivered to Brazilian Army by Embraer

DAN TAYLOR, TECHNOLOGY EDITOR

Embraer has delivered the first two SABER M60 2.0 radars to the Brazilian Army, which will use the radars in their anti-aircraft artillery units, the company announced in a statement.

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Revolution in Embedded Security

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Revolution in Embedded Security

RAMBUS

The growth of computing, graphics, neural processing power, communication bandwidth, and storage capacities have enabled amazing solutions. These innovations have created great value for society, and that value must be protected from exploitation by adversaries. This whitepaper explores many of these major technology changes and how Rambus' security offerings help in tackling the new embedded security challenges of device and silicon manufacturers.

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Poor Thermal Design Will Cripple Truck-Mounted AI for Autonomous Driving

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Poor Thermal Design Will Cripple Truck-Mounted AI for Autonomous Driving

ONE STOP SYTEMS (OSS)

Overlooking thermal design in today's truck-mounted advanced driver assistance systems can cripple performance, cause critical safety problems, and expose vehicle operators and vendors to liability. Technical leads

for autonomous trucks should carefully review ADAS vendors' thermal design to ensure it meets their performance, durability, and safety requirements.

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