

## **SOSA UPDATE** OCTOBER 2021

The SOSA Update bimonthly E-newsletter from the editorial staff of [militaryembedded.com](http://militaryembedded.com) covers the news, blogs, columns, feature articles, videos, podcasts, and more on the activities of the Sensor Open Systems Architecture (SOSA) Consortium, via the Military Embedded Systems collaboration with The Open Group, who manages the consortium, and the SOSA Outreach Committee. The [SOSA Consortium](http://SOSA Consortium) enables government and industry to collaboratively develop open standards and best practices to enable, enhance and accelerate the deployment of affordable, capable, interoperable sensor systems.



### NEWS



### Technical Standard for SOSA Reference Architecture, Edition 1.0 released

EMMA HELFRICH, TECHNOLOGY EDITOR

The Open Group Sensor Open Systems Architecture (SOSA) Consortium published the new Technical Standard for SOSA Reference Architecture, Edition 1.0.

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### NEWS



### 2021 SOSA Special Edition

JOHN MCHALE, GROUP EDITORIAL DIRECTOR

Welcome to the SOSA Special Edition, which marks the release of the The Open Group Technical Standard for Sensor Open Systems Architecture (SOSA) Reference Architecture, Edition 1.0. This magazine is the first of what will be an annual issue, highlighting editorial content on SOSA from the pages and website of Military Embedded Systems Magazine, as well as the products aligned and conformant to the technical standard – all put together exclusively by our staff. Learn about it all in the 2021 SOSA Special Edition!

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## MEMBER PERSPECTIVE



### MOSA provides the flexibility the DoD needs to modernize the battlespace

NICHOLAS BORTON, SRC INC.

Faced with operating across an increasingly complex and contested battlespace, the U.S. Department of Defense (DoD) must innovate at pace to successfully counter emerging threats around the world. Central to the DoD's multidomain strategy is the Modular Open Systems Approach (MOSA) – a concept enabling the U.S. Army, Navy, and Air Force to rapidly integrate best of breed subsystems on board any platform type in any operational environment.

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## MEMBER PERSPECTIVE



### How VPX is helping build tomorrow's interoperable military systems

KEN GROB, ELMA ELECTRONIC

The objectives of the Modular Open Systems Approach (MOSA)—to improve system capabilities, compatibility and cost—are predicated on a tight collaboration between government and industry. Although each service branch of the military has a model or view of what they need in their standards to produce the systems they require, a common goal of interoperability has reshaped the military electronics landscape over these past few years.

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## WEBCAST: Deploying the SOSA Technical Standard: Benefits & Challenges

JOHN MCHALE, GROUP EDITORIAL DIRECTOR

The Sensor Open System Architecture (SOSA) Consortium and its Tri-Service leadership (Air Force, Army, and Navy) and industry members are all involved in developing a Technical Standard that will be a requirement for future electronic warfare, radar, SIGINT, ISR, and other sensor systems. The joint effort will reduce overall development and deployment costs while enabling faster deployment of sensor technology to the warfighter. This webcast, which took place Sept 30, 2021 when the Edition 1.0 of the standard was released, featured industry experts discussing the challenges involved in deploying SOSA conformant hardware and software technology to the warfighter and detailed the benefits, such as faster delivery of new capabilities, shorter equipment downtimes, lower long-term life cycle costs, and more.

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**LCR** EMBEDDED SYSTEMS, INC. **SOSA** **OpenVPX**



## SOSA aligned sensor processing platform from Mercury Systems runs successful demo at Open Group TIM

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Mercury Systems reports a successful demonstration of its Model 8256 Sensor Open Systems Architecture

(SOSA) aligned development platform at the U.S. Army FACE and SOSA Technical Interchange Meeting (TIM), held today (September 14) in Huntsville, Alabama.

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## MEMBER NEWS

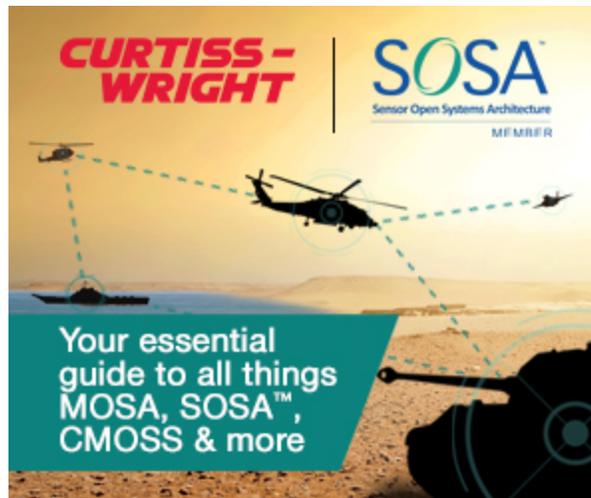


### GMS joins SOSA and FACE consortia, readies MOSA server architectures for market

LISA DAIGLE, ASSISTANT MANAGING EDITOR

General Micro Systems (GMS) has announced that it has joined The Open Group's Future Airborne Capability Environment (FACE) and Sensor Open Systems Architecture (SOSA) consortia.

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## MEMBER NEWS



### SOSA aligned products launched by Abaco Systems

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Abaco Systems announced the production release of five products designed to align to The Open Group's Sensor Open Systems Architecture (SOSA) technical standard. The newly released products, say Abaco Systems officials, align to the SOSA standard and support the stated goals of the U.S. Department of Defense (DoD) for technology insertion, cost reduction, and faster time to deployment.

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## MEMBER NEWS



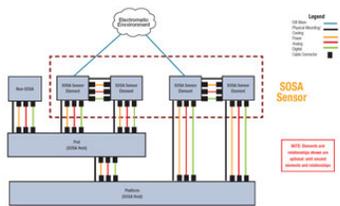
### SOSA aligned graphics card for AI applications released by EIZO

EMMA HELFRICH, TECHNOLOGY EDITOR

EIZO Rugged Solutions Inc., provider of ruggedized graphics and video products, has introduced the Condor GR5S-RTX5000 – a rugged OpenVPX 3U form factor graphics and general-purpose graphics processing unit (GPGPU) card that hosts the discrete NVIDIA Quadro RTX 5000 GPU (TU104) and is aligned with the Sensor Open Systems Architecture (SOSA) technical standard.

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## SPONSORED WHITE PAPER



### Achieving Data Interoperability for Modern Military Forces

BENCHMARK

This white paper details U.S. Department of Defense (DoD) expectations for DI and how defense contractors meet those requirements. This white paper also examines the meaning of DI in modern systems and its relationship to information interoperability.

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Ultra-High Speed & Powerful Cooling OpenVPX

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## SPONSORED WHITE PAPER

[Critical Techniques for High-Speed A/D](#)

## Converters in Real-Time Systems 12th Edition

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Whether it is something as trivial as a business traveler trying to find Wi-Fi at an airport without falling victim to a spoof network, or something as important as a warfighter trying to send positional data in a jammed environment, taking or retaining control of the electromagnetic spectrum in hostile terrain is becoming increasingly important.

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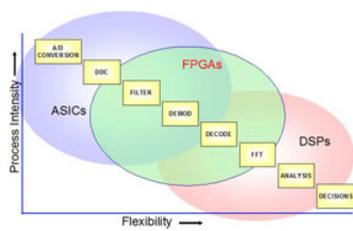


Figure 19

## Ruggedizing Commercial Displays and Mobile Computers for the Warfighter

**Sponsors:** Crystal Group, IEE, Digital Systems Engineering

**Date:** On-Demand

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