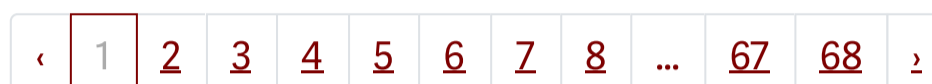


## John McHale

Editorial Director

[Military Embedded Systems](#)

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RADAR/EW



### [Military IC aftermarket trends -- Q & A with Dale Lillard, president of Lansdale Semiconductor](#) - [Story](#)

September 11, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

[Lansdale Semiconductor](#)

Decades-old military platforms like the Aegis weapon system and the Patriot missile defense systems, as well as key systems for fighter jets like the F-16, continue to go through modernizations and embrace open architecture designs, but critical integrated circuits (ICs) used in these systems have not changed since they were originally designed in the 1970s and 1980s. The U.S. military relies on aftermarket suppliers such as Lansdale Semiconductor to design these components exactly as they were first built by various semiconductor companies decades ago.

In this Q&A with Dale Lillard, president of Lansdale Semiconductor (Phoenix, Arizona), he shares how the military IC aftermarket performs compared to the rest of the defense electronics market, how this market segment is impacted by the global pandemic, and the vagaries of counterfeit-part mitigation. He also provides updated insights into several controversies he called attention to in the government IC-procurement process over the years. Edited excerpts follow.

FROM THE EDITOR

### [Steady defense market for new and aftermarket designs](#) -

[Story](#)

September 03, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

Welcome to our 2020 September Resource Guide, which is more than 100 pages for the eighth straight year. Shows you that print is not dead yet – not here – and definitely not in the military-electronics arena. So thank you to our loyal readers and advertisers for continuing to support our flagship publication. Thanks for supporting our print and online channels, but also for your support of and respect toward our warfighters and the sacrifices they make every day.

UNMANNED



## [NVIDIA-hardware partner and embedded computing supplier Connect Tech acquired by HEICO](#) - News

August 31, 2020

John McHale - Editorial Director, Military Embedded Systems

Connect Tech, Inc.

HEICO Corp.

GUELPH, Ontario, Canada. HEICO Corp. acquired Connect Tech, a producer of embedded computing and NVIDIA GPU solutions for military applications such as unmanned systems, communications, ISR (intelligence, surveillance, and reconnaissance), and more various form factors such as COM Express and PC104. As a subsidiary of HEICO Corporation, Connect Tech will continue to serve its global customer base.

RADAR/EW



## [SOSA Technical Standard Snapshot 3 now available](#) - News

August 25, 2020

John McHale - Editorial Director, Military Embedded Systems

WRIGHT-PATTERSON AIR FORCE BASE, Ohio. Officials at the Open Group announced the Technical Standard for SOSA Reference Architecture, Snapshot 3 is now available for download. According to the Open Group, the document is a Snapshot of what will, after maturation, become the Technical Standard for SOSA (Sensor Open Systems Architecture) Reference Architecture, Edition 1.0.

RADAR/EW



## [September FACE/SOSA Expo and TIM event moved to Spring 2021](#) - News

August 25, 2020

John McHale - Editorial Director, Military Embedded Systems

SOLOMONS, Maryland. Due to the ongoing COVID-19 pandemic officials at the Open Group and the consortia they manage - the Future Airborne Capability Environment (FACE) and the Sensor Open Systems Architecture (SOSA) - announced that the The Open Group FACE and SOSA Consortia Expo & TIM, originally scheduled for September 22, 2020 at the Holiday Inn Solomons Conference Center & Marina in Solomons, Maryland, the event will now be held Tuesday, March 23 at the same venue.

A.I.

## [Handling the information overload – and the heat](#) - Story

August 04, 2020

John McHale - Editorial Director, Military Embedded Systems

Information overload: another way of saying big data challenge.

COMMS



## [PODCAST: End of Moore's Law, small sats, custom microelectronics](#) - Podcast

June 15, 2020

John McHale - Editorial Director, Military Embedded Systems

COMMS

## [Small sats, custom microelectronics, and the end of Moore's law - Story](#)

June 15, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

Small satellites and their reduced size, weight, power, and cost (SWaP-C) requirements are challenging microelectronics suppliers to deliver the performance of commercial technology while also maintaining reliability. I discussed these trends in a McHale Report podcast with Tom Smelker, vice president and general manager for Mercury Systems Custom Microelectronic Solutions in Phoenix, Arizona. We also covered sensor processing trends and how artificial intelligence will impact future space applications. Smelker also discussed what he calls the end of Moore's law and its potential impact on the military electronics market. Edited excerpts follow.

FROM THE EDITOR

## [LIVE: New Military Embedded Systems website - Blog](#)

June 10, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

**SCOTTSDALE, Arizona.** Our new website and new URL: MilitaryEmbedded.com are now live. We are very excited. A big thank you to our development team, production team, and editorial staff for bringing our new online home together. Check out some highlights and key categories below and then browse away.

FROM THE EDITOR

## [Space market buzz: SpaceX launch, military funding steady - Story](#)

June 09, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

COMMS

## [Contested space, small sats, and the gamble on COTS in space - Story](#)

June 04, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

Contested space, where nations compete for military dominance outside Earth's atmosphere, is driving many military space platforms, but commercial space and small satellites continue to change the way the military suppliers of space electronics approach radiation-hardened component design from testing to deployment.

A.I.

## [PODCAST: AI and signal processing trends in electronic warfare and radar applications - Podcast](#)

May 28, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)[National Instruments \(NI\)](#)

RADAR/EW

## [Webcast: SOSA and VITA: Enabling Open Standards for Improved Capability on June 24 at 2 pm Est - News](#)

May 28, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

SCOTTSDALE, Arizona. Elements of the Sensor Open System Architecture (SOSA) technical standard are leveraging standards developed by the VITA Standards Organization, specifically VITA 65, also known as OpenVPX. VITA has also become a participating member of the SOSA Consortium along with the Air Force, Army, and Navy. This harmonization between the services, industry, and industry standardization bodies helps drive the SOSA initiative's strong momentum within the defense community. This webcast titled, "SOSA and VITA: Enabling Open Standards for Improved Capability," to be held on Wednesday, June 24, at 2 pm Est., will cover how the SOSA Consortium is working with VITA to enable standardization of VITA-based standards within the SOSA Technical Standard.

RADAR/EW

## [FACE/SOSA Expo and TIM event on for September - News](#)

May 28, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)

SOLOMONS, Maryland. Officials at the Open Group and the consortia they manage - the Future Airborne Capability Environment (FACE) and the Sensor Open Systems Architecture (SOSA) - are organizing the The Open Group FACE and SOSA Consortia Expo & TIM, to be held September 22, 2020 at the Holiday Inn Solomons Conference Center & Marina in Solomons, Maryland. FACE and SOSA Consortia Meetings will be held September will follow the expo at the same location from Sept. 23-25, 2020.

RADAR/EW

## [Abrams thermal management system coming from Meggitt Defense Systems - News](#)

April 29, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)[Meggitt Defense Systems, Inc.](#)

IRVINE, California. Meggitt Defense Systems, Inc. (MDSI) won a contract to provide the Thermal Management System (TMS) to General Dynamics Land Systems in Sterling Heights, Michigan, for the Abrams program. The TMS delivers active cooling to the upgraded Abrams electronics and crew.

FROM THE EDITOR

## [Defense industry adapts to pandemic - Story](#)

April 23, 2020

[John McHale - Editorial Director, Military Embedded Systems](#)[Mercury Systems](#)

COMMS

## [Defense industry response to COVID-19 pandemic](#) - Other

April 10, 2020

John McHale - Editorial Director, Military Embedded Systems

Mercury Systems

AVIONICS

## [PODCAST: Defense avionics platforms benefit from FACE Technical Standard](#) - Podcast

March 31, 2020

John McHale - Editorial Director, Military Embedded Systems

Collins Aerospace

AVIONICS

## [The FACE Technical Standard's impact on military avionics systems](#) - Story

March 12, 2020

John McHale - Editorial Director, Military Embedded Systems

Collins Aerospace

RADAR/EW

## [SOSA Update, FACE content, and WEST 2020](#) - Story

March 10, 2020

John McHale - Editorial Director, Military Embedded Systems

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