

Sandra Krombacher

B2B Marketing Director for Technology Organizations

About

Sandra Krombacher is a strategic B2B Marketing Leader with 12+ years of international experience specializing in aerospace, defense, communications, medical, and IoT industries. With a proven track record of developing and executing marketing initiatives, she strives to amplify brand visibility, enhance demand generation, and drive significant business growth.

Work Samples

Note: Due to Kontron's rebranding, some assets will have a different look and feel.

Lead Generation

- Customized newsletter with high-quality assets
- Focused on target audience
- High-quality leads





SOLUTIONS BRIEF

Deploy Data-Rich Applications Anywhere at the Edge

Together Kontron and Intel are delivering on the promise of edge computing by bringing high-caliber performance and security to the most complex IoT applications.



Learn How



Harnessing the Power of COM Express®

An industrial customer approached Kontron for a solution to replace current COMe module with one that increased performance, lowered cost, and supported 10Gb Ethernet. Kontron answered with the COM Express® basic and AMD EPYC – bEP7 E3351.

Learn More

SOLUTIONS BRIEF



High Performance Computing Just Got Better

Taking standardized COMs to the next level with a new High Performance Computing standard from the PCI Industrial Computer Manufacturers Group (PICMG®).

View Paper



Kontron and Intel Drive Customized Edge Solutions

Advanced edge systems require scalable, reliable performance, and the COM-HPC module for industrial edge servers provides the answer.

Discover More



COM Express®: A Recipe for IIOT Success

Ectron is tapping into AI and machine learning to further modernize industrial baking into some tasty treats.

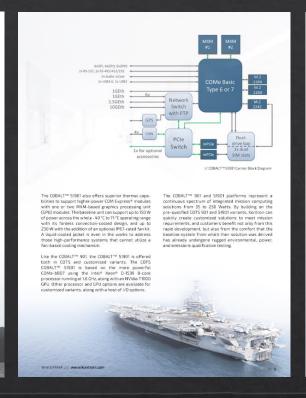
Learn More

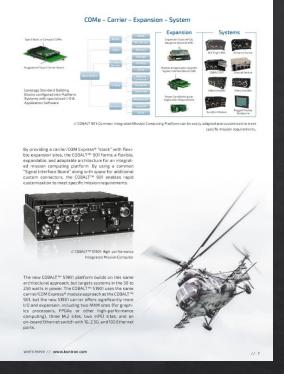


POSSIBILITIES START HERE (KONTRON



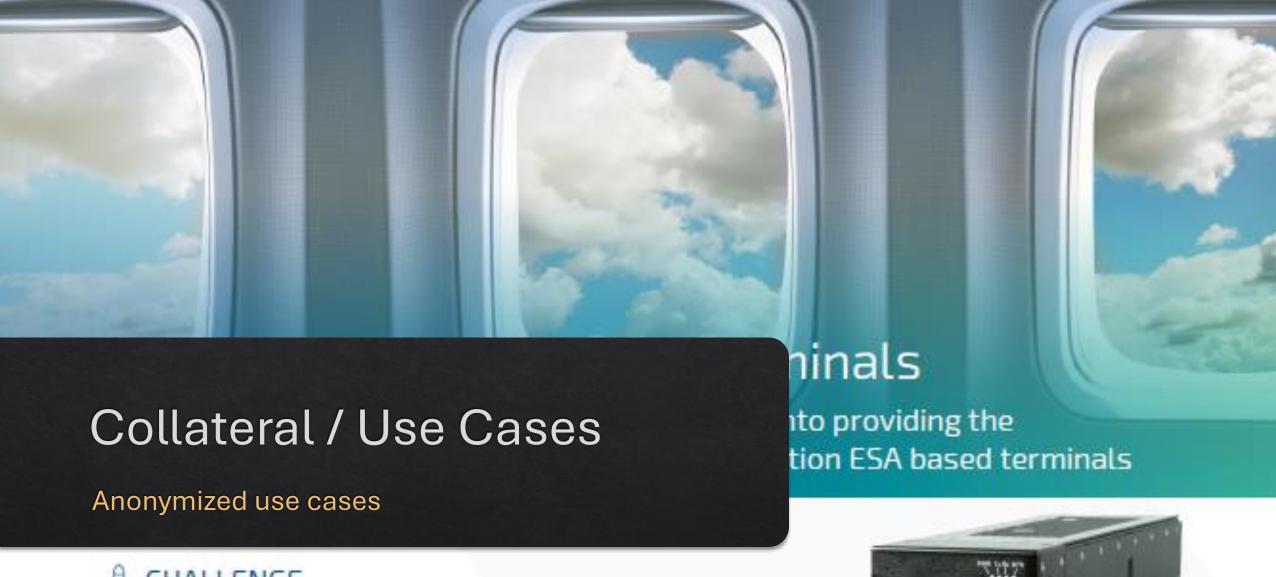
EXECUTIVE SUMMARY Since the commercial off-the-shelf (COTS) revolution largely ended most 100 % custom defense computing platforms some 25 years ago, there have essentially been By leveraging these COTS platforms and modifying them to meet the needs of the mission at hand, system intetwo approaches to designing new systems; one designed grators can take months off the engineering effort with a full custom assembly using a mixture of COTS and custom components; the other leveraging COTS bladerolved in a development project and reduce overall style computing components with a custom backplane in a susceptibility testing may still be necessary due to the customizations applied, having a system that has already undergone and passed such testing gives the There were standards to rely on such as classic 19-inch integrator some confidence that their new custom sysracks, the half- or full-ATR chassis standard captured by ARINC 404/600 and the various blade-computing stantem will also pass testing. dards including VME, Compact PCI, or VPX. However integrators were still forced to do a great deal of system and mechanical engineering to bring their systems to a point where their application could be loaded and run, let Defense system integrators are increasingly turning to lone ready for environmental testing and, ultimately, integrated mission computers as starting points for their rugged defense systems. By leveraging COTS or modified COTS systems that have previously undergone rugged Today, however, there is an alternative with the emergence environmental qualification testing, integrators not only will examine how these systems are designed and tested. out a lengthy up-front design and fabrication effort, but they also gain early confidence that their final system will and how they can be customized to meet specific mission mental qualification testing. With the emergence of multi-core processing, small small, physically enclosed, rugged computing platform form-factor standards-based computing modules and very small form factor peripheral devices (also stanwith standards-based I/D using mil-circular connectors dards-based), it is now possible to design and bring to such as COM Express® or VNX and are essentially rugged market very compact but configurable mission comput equivalents of a typical PC - although often enhanced ronmental conditions required by defense systems systems bolt down to a mounting surface (as opposed to the traditional rack-mount approach) and are often fanless, using natural air convection across finned surfaces for cooling, although fans or cold-plates are some-





High-quality Content

Whitepapers, solution briefs, application stories



& CHALLENGE

- Developing an ESA (Electronic Steered Antenna) based terminals to provide high speed, reliable broadband connectivity
- Meeting the aggressive time to market standards



Next Generation Satcom Terminals

Kontron's extensive IFE&C experience leveraged into providing the management hardware backbone for next generation ESA based terminals

A CHALLENGE

- > Developing an ESA (Electronic Steered Antenna) based terminals to provide high speed, reliable broadband connectivity
- Meeting the aggressive time to market standards
- > Finding a partner with rapid design capability and existing design building blocks to leverage for success

SOLUTION

- > Kontron to develop and manufacture an Antenna Control Modem Unit (ACMU), including the management of various 3rd party controls to be incorporated into the overall design
- > Implementing Kontron proven avionics system design practices and FAA qualification process know-how to ensure on time, cost effective strategies

BENEFITS

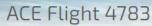
- > Kontron has a long history of successfully supplying airborne servers, wireless access points and communication units to the rapidly growing In-flight Entertainment & Connectivity market
- > Partnering with a company that has 5,000 commercial aircraft and business jets operating worldwide with Kontron equipment on
- > Resulting in an accelerated time-to-market, reduced total-cost-of-ownership, product longevity and the best possible overall application with leading-edge, highest reliability embedded technology











Dual Modem MODMAN Enabling Efficiency and Functionality

A CHALLENGE

- ► The customer needed a MODMAN to accommodate two satellite modems in a single 4MCU LRU while maintaining ARINC 791/792 standards
- Two Ka-Band modems would be required
- Automatic network switching would need to occur for a seamless passenger experience across all regions

SOLUTION

- ▶ Kontron developed the Dual modern MODMAN ACE Flight 4783, integrating dual satellite modern cards with an RF switch
- In addition, Kontron added full Server capability within the same 4MCU package, including a Xeon processor, managed Gigabit Ethernet Switch, up to 16 TByte internal storage, a 4G Cellular Modern for ground communications, and all expected standard aircraft
- ► Kontron has designed its ACE Flight 4783 MODMAN product family to support different modern configurations (ordering options)

BENEFITS

- The additional features enable the use of the Dual MODMAN not only as a connectivity support but also as a combined Connectivity & Media Server for aircraft installations with Size, Weight, and Power (SWAP) constraints
- ▶ The ACE Flight 4783 architecture allows support for multi-orbit connectivity projects
- Being based on Kontron's in-house product technology allows for total control over lifecycles and customization
- Qualified to DO-160G and Line-Fit Ready

Learn more: Avionics | ACE FLIGHT™ 4783







COBALT™ S1901

Rugged Conduction Cooled High Performance CPU/GPU Platform for Next Generation Technology Insertion

A CHALLENGE

- Rapid response to next generation technology insertion requiring rugged high performance computing and connectivity
- ► Fully qualified to MiL-STD-B10G, -704F/-1275E, and -461E for airborne application with no fan assist
- Application ready, fully validated BSP for ease of software integration and fast time-to-deployment

SOLUTION

- COBALT[™] S1901 integrates Intel[®] Xeon[®] technology coupled with an NVIDIA T1000 GPU for ease of porting next generation.
 All software algorithms onto a fully qualified rugged platform without any performance comprise at temperature or harsh environment conditions.
- Provides common connectivity ports such as 10GbE, 2.5GbE and 1GbE, USB3.0, CANBus, Discretes, and Serial I/O for interfacing to a wide range of external sensor payloads and data buses within the aircraft or vehicle

BENEFITS

- Meets the DoD initiative for Modular Open Systems Approach (MOSA) and provides unique configuration capabilities for different mission profiles and future upgrade capabilities based on industry standard modules and hardware devices
- Readily available & cost effective standard configurations allow a short delivery cycle due to utilizing common hardware and reduces the overall cost of the platform without compromise to the performance capabilities
- High reliability the platform is built upon Kontron's years of experience in ruggedizing COM Express® modules and hardware devices in harsh environments

COBALT™ S1901





DARC VX208 Rugged Mission Computer

Provides situational awareness capabilities to Armored Ground Vehicles

A CHALLENGE

- Requiring a rugged, high performance but compact mission computer, qualified for armored vehicles for harsh environments
- ► Demanding a made in Europe, ITAR and BAFA Free solution
- Expecting capabilities to intensively send/receive RTSP* packets, compress and post-process multiple video streams in parallel.

* The foot Time Streaming Protocol is an application-level network protocol designed for multiplexing and packetizing multimedia transport streams, such as interactive media, video and audio, over a suitable transport protocol

SOLUTION

▶ Offering an optimized SWAP-Crugged COTS mission computer with GPGPU support, attached to a touch display to present the Human Machine Interface of the vehicle, its sensors, cameras and communication equipment. DARC™ VX208 is providing full situational awareness capabilities to the dismounts and operators in armored vehicles.

BENEFITS

- ▶ Building on Kontron's know-how in the design and manufacture of COTS embedded rugged systems for defense market
- Leveraging Kontron's ability to provide modified COTS products, minimizing NRE costs and improving the Total Cost of Ownership
- Made In France / ITAR and BAFA free

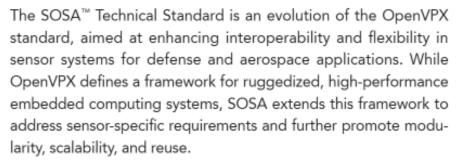
Learn more: Kontron I DARC™ VX208



QUESTION: How does the Sensor Open Systems Architecture™ (SOSA) Technical Standard build on open standards? Pick one and explain: OpenVPX, HOST, FACE, CMOSS, RedHawk, other.

The SOSA™ Technical Standard Revolutionizes Sensor Systems for Defense and Aerospace

By Sandra Krombacher, Director Marketing, Kontron America



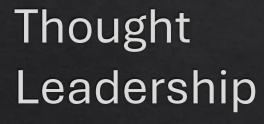
SOSA builds on the foundation laid by OpenVPX by incorporating several key advancements. Firstly, it introduces a modular approach to sensor systems, enabling the integration of different sensor types such as radar, electro-optical, electronic warfare, and more, into a common architecture. This modularity allows for easier upgrades, replacements, and enhancements without disrupting the entire system.

Secondly, SOSA emphasizes interoperability through the use of standardized interfaces and profiles. It defines a set of common interface standards, including data transport, command and control, and power, which enable sensor modules from various vendors to seamlessly communicate and cooperate within the same system. This interoperability reduces integration efforts, promotes competition, and fosters innovation within the sensor ecosystem.

Additionally, SOSA incorporates the concept of open system architectures, encouraging the use of open standards and common building blocks. This approach facilitates technology insertion and enables system scalability by allowing modules and components from different generations or vendors to be easily integrated.

Overall, the SOSA Technical Standard builds on the foundation established by OpenVPX by providing a comprehensive framework that addresses the specific needs of sensor systems. It promotes modularity, interoperability, and openness, enabling the development of advanced, future-proof sensor architectures for defense and aerospace applications.

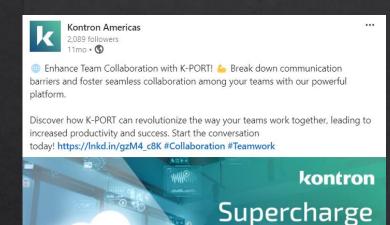






kontron Introducing the VX307H: **Next-Generation Powerhouse Combining Unparalleled Performance** at an Efficient Power Budget First 3U Plug-In Card to meet the challenge of 100Gb Ethernet and take advantage of the performance/power improvement provided by the new Air-Flow Through AFT (VITA48.8) cooling solution ➤ Intel® Xean® D-2700 HCC processor > From 12 to 20 cores, enabling computing power to be adapted to applications of different Size, Weight, Power and Cost (SWaP-C) Long term availability with 10-years of typical life cycle > SOSA™ aligned Contact Us: 1-888-294-4558, sales@us.kontron.com www.kontron.com

Digital Advertising



⊕K-PORT

Team

Collaboration

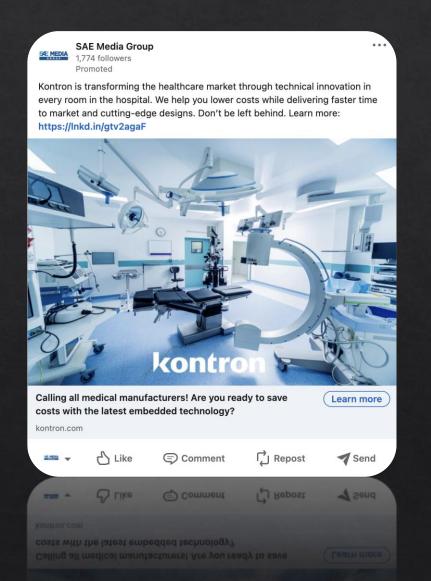
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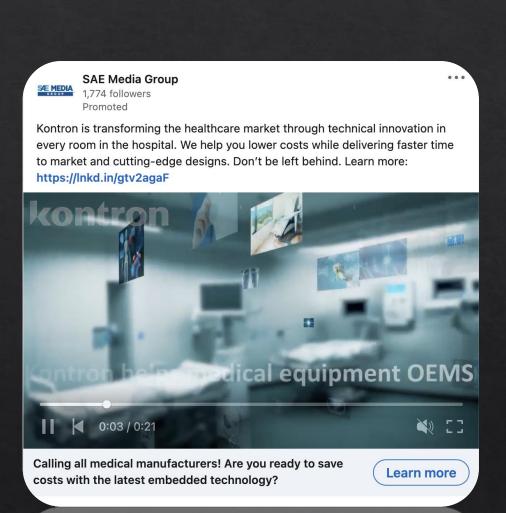




Branding - New Introduction of Hardware & Software Solutions to North American Market

3rd Party LinkedIn Branding Campaign





costs with the latest embedded technology?

Calling all medical manufacturers! Are you ready to save

Webinar



We'd love to see you at our #medical webinar tomorrow exploring #robotic -assisted surgery, and it's incredible potential. If you can't make it live, you can register and watch the recorded event later with popcorn!:) ...more



Tue, Oct 31, 2023, 11:00 AM - 11:30 AM PDT

View event

Beyond Science Fiction: Realizing the Potential of Robotic-Assisted Surgery

Online



Event Management





Event management

- Mobile World Congress
- Mobile World Congress







Thank you for your time. Let's stay in touch!

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LinkedIn Profile