Kontron offers the industry’s largest selection of military computing hardware solutions including application-ready COTS boards and platforms and rugged enclosures. Partnering with Kontron, defense contractors have access to the full breadth of our rugged computing expertise. As a technology innovator and global solutions provider, Kontron is able to offer an extensive services portfolio that includes enhanced repair services, extended warranty, testing and after-market technical support.

- Certification, full system integration and extended product lifecycle management
- Be the first to leverage the latest technologies through Kontron’s strategic partnerships
- Superior support from dedicated military teams located around the globe

**SHORTEST ROUTE TO DEPLOYMENT WITH COTS OPEN ARCHITECTURE PLATFORMS**

**EXPANDING DEFENSE CAPABILITIES**

**RUGGED EMBEDDED COMPUTING SOLUTIONS**

About Kontron | Member of the S&T Group

Kontron is a global leader in IoT/embedded computing technology (ECT). As a part of technology group S&T, Kontron offers a combined portfolio of secure hardware, middleware and services for Internet of Things (IoT) and Industry 4.0 applications. With its standard products and tailor-made solutions based on highly reliable state-of-the-art embedded technologies, Kontron provides secure and innovative applications for a variety of industries. As a result, customers benefit from accelerated time-to-market, reduced total cost of ownership, product longevity and the best fully integrated applications overall.

About the Intel® Internet of Things Solutions Alliance

From modular components to market-ready systems, Intel and the 400+ global member companies of the Intel® Internet of Things Solutions Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics. Close collaboration with Intel and each other enables Alliance members to innovate with the latest IoT technologies, helping developers deliver first-in-market solutions.

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**MODULAR BUILDING BLOCKS**

Boards and modules to full system designs

**RUGGED ‘BY DESIGN’**

Secure mission computers and custom integrated systems

**APPLICATION-READY**

Accelerate Development to Deployment Schedules
Kontron’s feature-rich and technically advanced military hardware solutions are proven to meet harsh environment reliability, survivability and SWAP-C requirements. Achieved through decades of experience engineering rugged, high performance embedded computers, boards and rugged enclosures for industries such as industrial, avionics, medical and transportation, Kontron excels at delivering COTS application-ready platforms and customized systems specifically designed to accelerate time to market.

**SECURE MISSION COMPUTERS ENABLING CONNECTED MILITARY SYSTEMS**

Kontron’s HPEC systems give military developers the advanced rugged architectures that balance processor power with I/O bandwidth to meet these needs. Kontron offers modular HPEC systems optimized for deep learning applications based on the Intel® Xeon® D Processors.

- Consolidating workloads onto a single machine using parallel virtual machine (VM) execution
- High performance computing and I/O bandwidth that meet defense simulation and operational warfare systems demands
- Reliable support for PCI Express Gen3 and 10 Gigabit Ethernet between all boards in the backplane across the full operational domain of a rugged computer design

**HIGH PERFORMANCE EMBEDDED COMPUTING (HPEC)**

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**RUGGED SYSTEMS**

**COBALT™ small form factor with no ITAR restrictions**

- Cobalt 90/100 series - Intel® Dual-Core™ G4-4022E, configurable front panel I/O
- Cobalt™ 90|400 series – Intel® Quad Core™ E3-1505L
- Cobalt 90|400 with MIL-STD-1553 - L2 Ethernet switch, and two dual-redundant MIL-STD-1553/B channels
- COBALT™ 902 - Situational Awareness Quad Channel H.264 Encoder/Intel® Core™ i7 Processor

**ApexVX - Multi mission computer system**

- Pre-qualified COTS solution
- Flexible design, conduction-cooled structure
- S-13 3U VPX Computer System
- System management and PBIT System Test

**STARVX - Pre-Qualified HPEC Platform**

- Compact 3U VPX Air Cooled solutions
- Turn-key Linux parallel system with 8 core Broadwell DE blades
- Balanced I/O and CPU power
- Up to 4GB/s board to board with TCP/IP sockets
- System management and runtime system monitoring

**COBALT™ 51901 Rugged High Performance Platform**

- ComExpress Intel® High Performance Processor
- Expansion slots for multiple GPU, FPGA accelerators, or video modules
- Multiple I/O high speed interfaces and high capacity storage options
- Wireless connectivity options for cellular and wifi
- Ruggedized & modular platform for defense deployments

**RUGGED BOARDS AND MODULES**

**VPX**

- Breakthrough VPX (VITA 46)/OpenVPX (VITA 65) products offer superior processing and I/O performance, making them ideal building blocks for advanced defense platforms, especially those with SGLA™ requirements.

**CompactPCI**

- Broadest portfolio of CompactPCI boards giving developers enhanced design flexibility for scalable, modular and highly ruggedized platforms.

**VME**

- Kontron’s continual VME technology evolution has kept VME a proven platform choice with ongoing advancements to processor migration, extending I/O capabilities on the backplane, and supporting higher bandwidth applications.

**COM EXPRESS/SMARC**

- Highly scalable. Kontron’s COM Express and SMARC modules streamline design customization and offer a rich feature set and proven high reliability in a wide range of form factors.