

COTS Solutions



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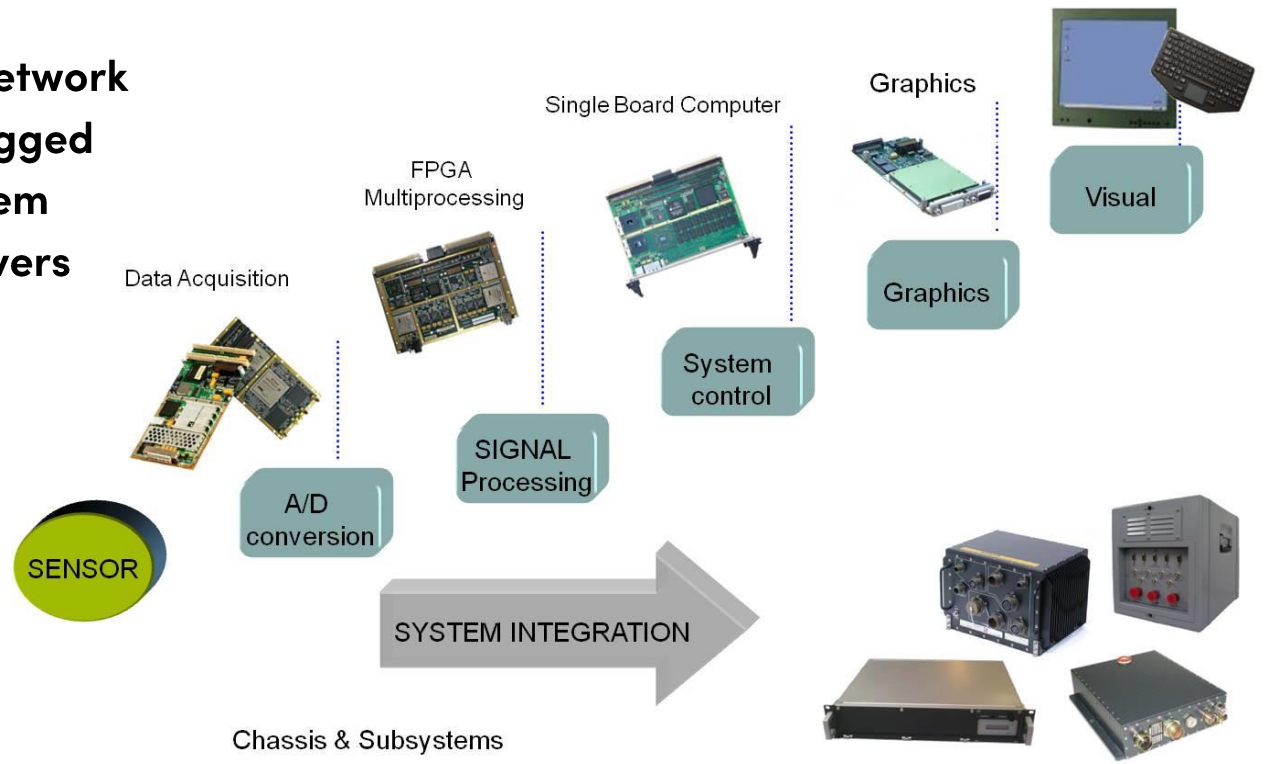
gaci.fr



- ◆ **Over 30 years of collaboration**
 - ◆ Continuous technological intelligence
 - ◆ Long term support
 - ◆ Supply chain management

- ◆ **Over 30 years of experience**
 - ◆ Informed, independent choice
 - ◆ Objective advise
 - ◆ No conflict

- ◆ **Wide partnership network**
 - ◆ Lab to ultra rugged
 - ◆ Complete system
 - ◆ Software + drivers
 - ◆ Built In Test





Partner COTS Solutions



kontron

Rugged COTS CPU and Switch boards

- ◆ Long experience in embedded board design
- ◆ Competitiveness board price
- ◆ Large range of CPU boards
- ◆ Life cycle management program
- ◆ ITAR Free



**VME – VPX – cPCI – COMexpress – SMARC
CPU – Ethernet Switch**

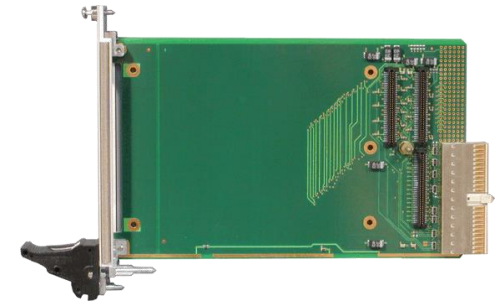
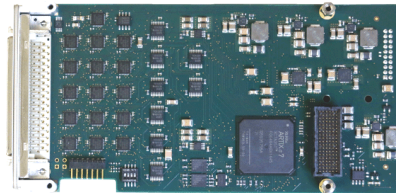
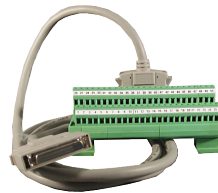
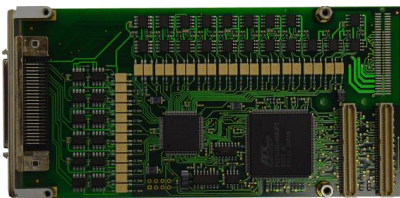


TEWS

TECHNOLOGIES

Embedded I/Os

- ◆ Worldwide leader for standard I/O solution
- ◆ Over 40 years of experience
- ◆ FPGA, Communication Network, Digital I/O, Analog I/O, Memory, Carrier
- ◆ Extended temperature [-40°C,+85°C]
- ◆ High level of customization
- ◆ 5 years warranty basis
- ◆ ITAR free



Worldwide Leader for standard I/O solutions
Open architecture standards PMC, XMC, cPCI, VMEbus, PC104+, FMC



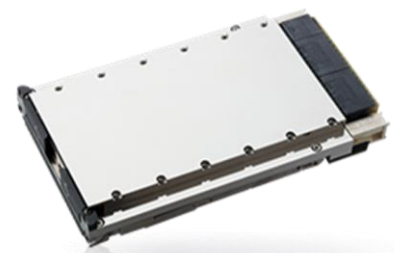


High Performance Graphics/Video boards

EIZO Rugged Solutions



- ◆ Expert for video treatment : capture, processing, streaming, recording, video format conversion, GPGPU computing, Artificial Intelligence
- ◆ Solution incorporating the major standards, for input and output format
- ◆ Large range of mixed, input and output solutions
- ◆ Commercial/Rugged, Conduction/Convection, Front/Rear/I/O...



XMC / VPX Graphics - Video solutions

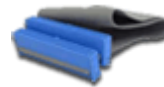
Dedicated equipment for video compression, conversion or split





Tactical Data Link Solutions

- ◆ Over 30 years experience in Tactical Data Solutions (Industrial & Government)
- ◆ Complete range of solutions
 - ◆ PCIe - PCI - PMC - PC104 - cPCI
 - ◆ NTDS over Ethernet system
 - ◆ Fiber optic solutions
 - ◆ Tactical data systems
 - ◆ Cables and connectors



Leader for NTDS & ATDS solutions
Adapters – Rugged systems – Cable assemblies – MIL-SPECs



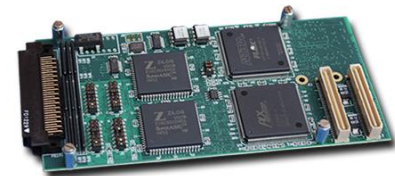
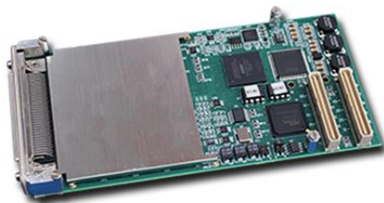


General Standards Corporation

High Performance Bus Interface Solutions!

Specialist of high performance Bus Interfaces Large FIFO

- ◆ Configurable sampling rates
- ◆ Large FIFO
- ◆ Resolution up to 24 bits
- ◆ Auto-calibration
- ◆ Multi-protocol supported
- ◆ Free drivers and loaner boards
- ◆ Support Linux, Windows, VxWorks, QNX, Solaris, LynxOS x86 or PowerPC



Analog – Digital – High Speed serial – Data acquisition
ALL FORM FACTOR



Technobox[®], inc.

PMC/XMC Mezzanine Cards for Lab world

- ◆ Mezzanine cards expert
- ◆ Boards and embedded solutions
- ◆ Carrier and adapter boards
- ◆ Large accessories range
- ◆ VITA and IPC610 certified
- ◆ Designed and assembled in US



PMC/XMC digital and serial I/O, Ethernet, Memory Storage



High level protections

- ◆ Patented salt-water resistant aluminum alloy
- ◆ Large standard portfolio & custom design
- ◆ Resistant & reparable
- ◆ MIL-STD-810 rugged design
- ◆ Hard mount / shock absorber / wire rope



19" transit case – transport case – storage case



iKey **Expert for pointing and keyboard solutions**

- ◆ **World wide specialist on Rugged & Customizable keyboards**
- ◆ **IP68 keyboards**
- ◆ **Large scale of available solutions**
- ◆ **All size and character type**
- ◆ **Different pointing device**
- ◆ **Partnership with Dell**



Rugged keyboards and computer peripherals



BAYTEK Rugged COTS Displays

- ◆ Monitor and Panel PC from 6,5" to 30"
- ◆ Custom solution
- ◆ Life cycle management proposal
- ◆ ITAR Free



Rugged monitor expert
For rugged application in Military Ground, Airborne and Navy





Protection of your electronic : 19" and beyond

SCHROFF

- ◆ Privileged technical exchanges with GACI
- ◆ Large standard portfolio & custom design
- ◆ From lab to MIL/SEISMIC qualified products
- ◆ Specific needs addressed with COTS products
- ◆ On line solution configurator



PCB accessories, subracks, cases, backplanes, power supplies, cabinets and pre-assembled chassis





DELL Technologies IT Solutions

- ◆ World leader of IT Solutions
- ◆ OEM team dedicated
- ◆ Wide-ranging of products
- ◆ Hardware and software designer
- ◆ Extended life availability and warranty
- ◆ 48h worldwide support



Avionic simulation



Air Traffic Management

Military air traffic control



Network – Storage – Processing – Printing – Display



Cabinet Integration

- ◆ 400m² dedicated assembly hall
- ◆ Integration and wiring folders
- ◆ Equipment and cabinets procurement
- ◆ Wiring and mechanical integration
- ◆ Power-up, OS installation, test script
- ◆ Final inspection

- ◆ Type of integrated functions
 - ◆ Acquisition
 - ◆ Processing
 - ◆ Storage
 - ◆ Network



Network – Storage – Processing – Printing – Display



GACI
Product lines



VME Boards & Computers

- ◆ Long experience in embedded systems
- ◆ Based on domestic customer expectations
- ◆ Competitiveness price
- ◆ Qualified in harsh environment
- ◆ ITAR Free
- ◆ Ready to be customized if needed
- ◆ Video server, signal acquisition, time sequence management, data processing
- ◆ Vetronics
- ◆ Several processing units available
- ◆ Multi-platforms
- ◆ On different OS
- ◆ Various available I/O



**Low Power Signal Board computer, Power PC Single Board Computer
Gigabit Ethernet Switch**



CRC3 Family

Customized Rugged Conduction Cooled Computers

COTS ADAPTIVE

- ◆ 3U / 6U Architectures
- ◆ 2 to 4 payload slots
- ◆ Fully customizable I/O
- ◆ COTS benefits for risk reduction

MULTI FUNCTION COMPUTER

- ◆ Communication
- ◆ Console
- ◆ Video/Storage
- ◆ Vetricon
- ◆ On demand customization

APPLICATIONS

- ◆ Naval
- ◆ Aerospace
- ◆ Land

FEATURES

- ◆ Small form factor
- ◆ IP67 sealed system
- ◆ Conduction cooled system
- ◆ -40°C to +60°C
- ◆ ITAR Free



Low risk and Controlled price solution for Critical program
More than 500 CRC3 in operation



CRC3 Multi purpose Interface Computer

- ◆ Air flow or conduction cooled technology
- ◆ Waterproof chassis / suspended enclosure
- ◆ From 3 to 12 user slots
- ◆ Software on demand
- ◆ Chassis management
- ◆ Tactical data / serial link / NMEA to Ethernet I/O options
 - ◆ MIL-STD 1553, CAN bus, ARINC 429
 - ◆ NTDS / ATDS, L11
 - ◆ Analog video and signal



More than 500 CRC3 in operation





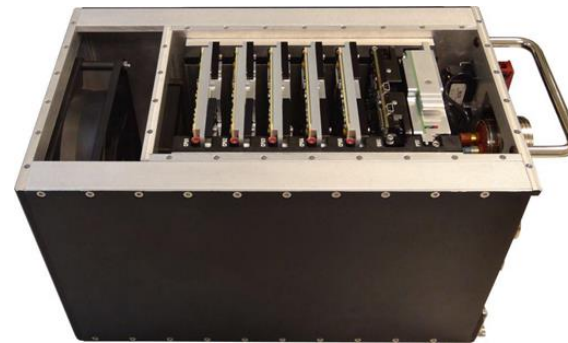
VULCAIN Avionic $\frac{3}{4}$ ATR computer

APPLICATIONS

- ◆ MIL-STD-1553 & 3910
- ◆ ARINC 429
- ◆ CANBus, AFDX
- ◆ RS links, discretes
- ◆ Stanag 3350 Video desks

FEATURES

- ◆ Air-forced conduction-cooled computer
- ◆ 400 W Power supply
- ◆ 7 slot VPX backplane with OpenVPX topology
- ◆ High speed CPU links – PCIe with VxFabrics
- ◆ Up to 5 core i7 processing boards
- ◆ 10 GbE Ethernet switch



Video - Storage - Router - Switching - Graphic
On demand customization





Long term partner

- ◆ **COTS logic for standard & custom needs**
- ◆ **A wide network of long term partners ensuring the independent choice of the appropriate solution**
- ◆ **GACI experience in integrating partner's COTS can help your integration**

