

# Building Blocks for Defence Systems



**Dedicated  
Systems**

# Acquire

Dedicated Systems provides a broad array of data acquisition parts and systems to support defence applications. Our range suits functions from low data - high precision rate control state space monitoring through to direct RF, low latency, signal acquisition and transmission in a suite of standard form factors.

Low cost systems: compact, available in rugged format, 100+ I/O modules



## Cube

UEI Cubes are low cost, rugged and compact

- Designed for easy deployment and mounting
- 1, 3, 6 or 7 I/O slot models
- Up to 5g vibration, 100g shock, -40°C to +85°C
- Compact panel IO supports 1, 2 or 3 I/O cards

## RACKtangle

UEI RACKtangles can be mounted in a 19" rack and provide front access to I/O layers for easy extraction and servicing.

- 3U high with 6 or 12 I/O slots
- Up to 3g vibration, 100g shock, -40°C to +70°C

## ML Series

Ultra Rugged Military Grade Chassis, 4 or 12 I/O slot models.

Designed to meet:

- MIL-STD-461/810/704/1275
- Up to 5g vibration, 100g shock, -40°C to +70°C

Mezzanine cards & Interfaces: FMC, PMC, XMC, mPCIe, USB



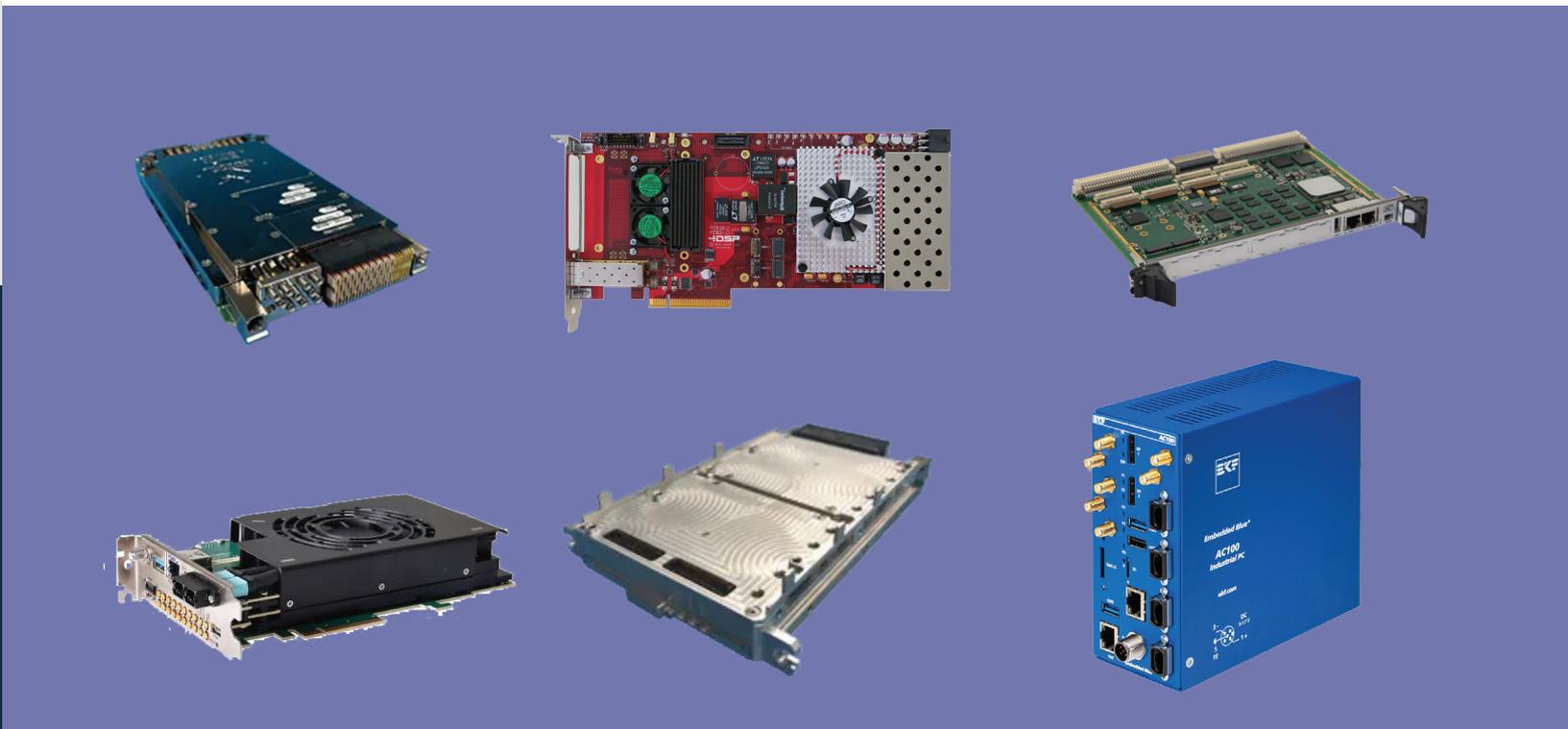
# Compute

Dedicated Systems provides a collection of compute modules able to support a host of computationally intensive applications. Whether your application requires CPU, GPGPU or FPGA computation Dedicated Systems will be able to work with you to select and source hardware suitable for your project.

From benchtop research and development to sea, air, land, or space deployment, Dedicated Systems can provide solutions to suit a vast array of Defence applications.

Product Types: SBC, Switch, FPGA

Industry standard form factors & configurations: PCIe, cPCI, VME, VPX



Ruggedisation options: Conformal coating, Conduction cooling, MIL connectors, SOSA



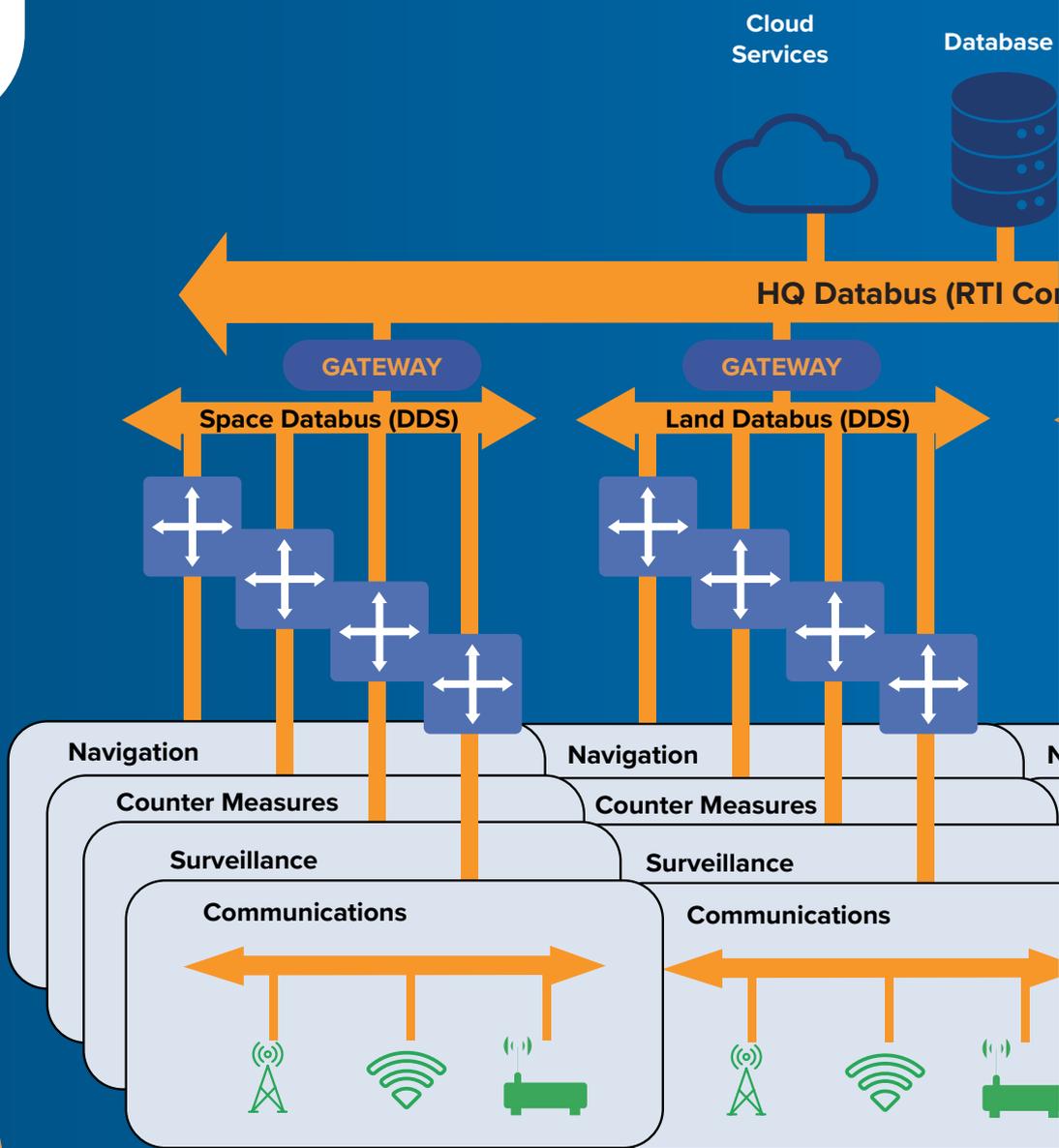
INTEROPERABILITY

SAFETY

AdaCore

CS CODESECURE

Tools for managing, building and v



Platforms that support the design

CoreAVI  
INNOVATING A SAFER TOMORROW

McObject<sup>®</sup>  
eXtremeDB

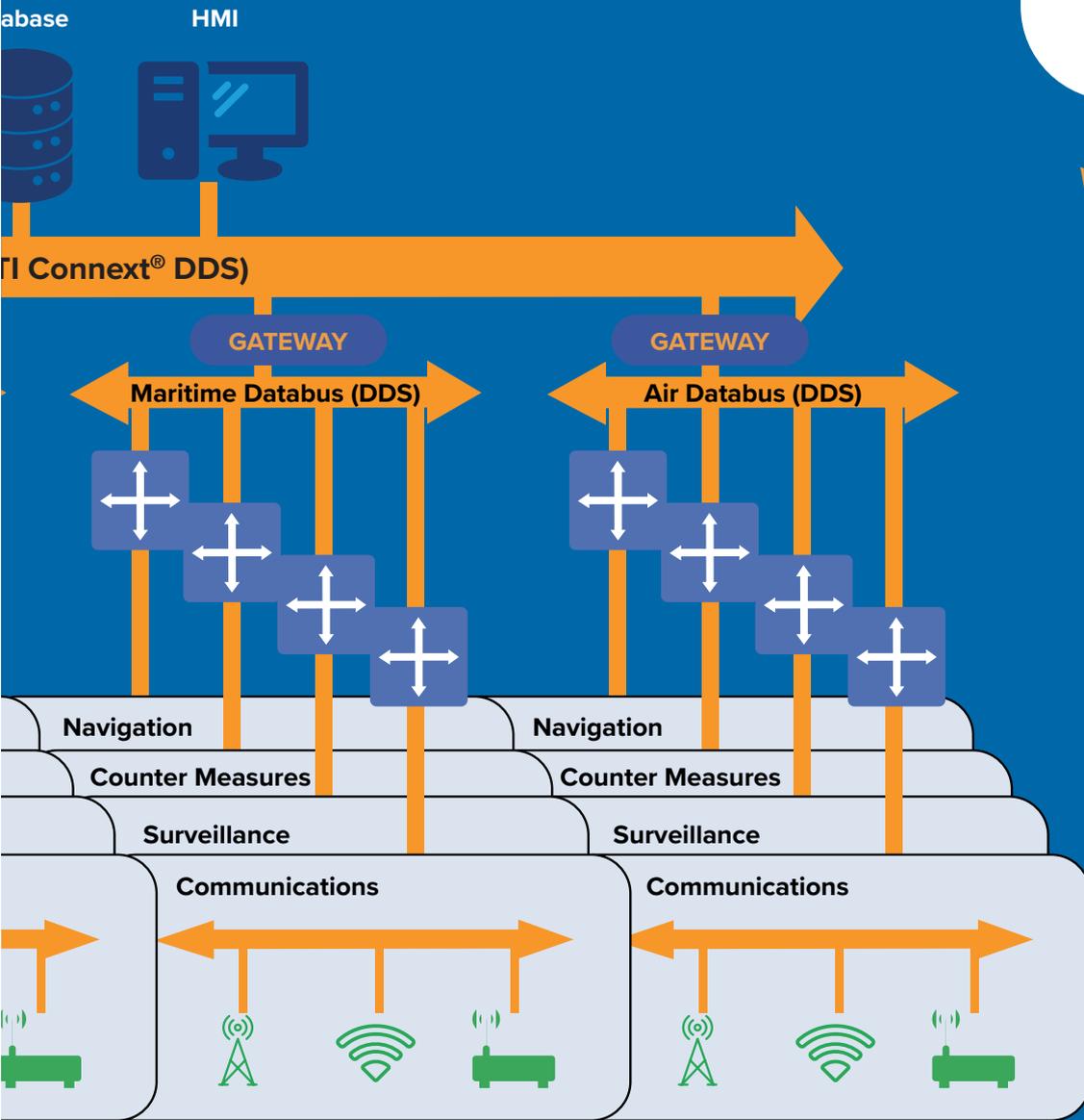
**SECURITY**

**MAINTAINABILITY**

and verifying safety critical systems

**SIEMENS**

**RAPITA**



design and deployment of critical systems

**rti**

**WINDRVR**

# Protect

Dedicated Systems can source benchtop and deployable solutions for VPX, VME and cPCI form factors, including backplanes, power supplies and cooling systems to meet your requirements.

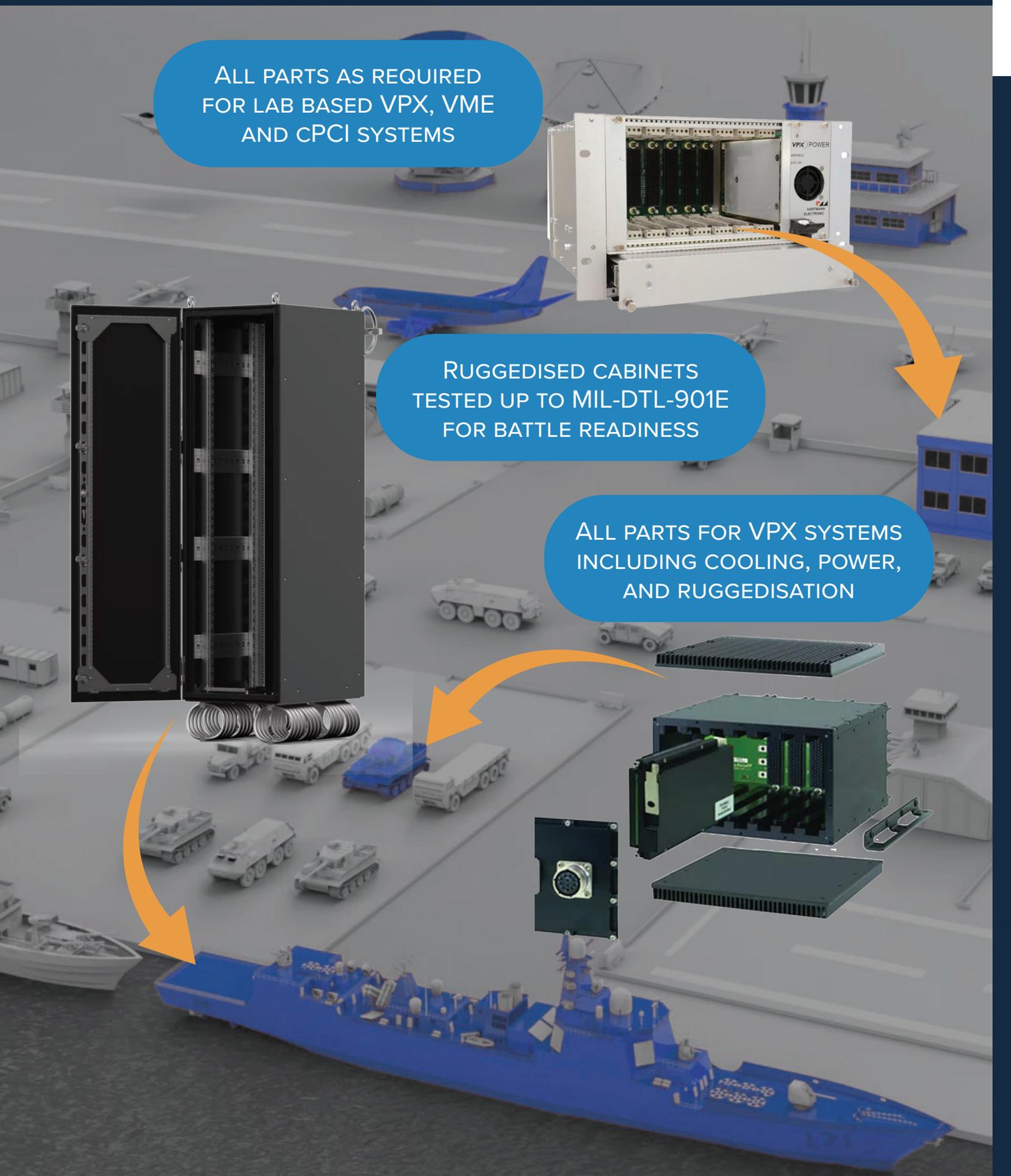
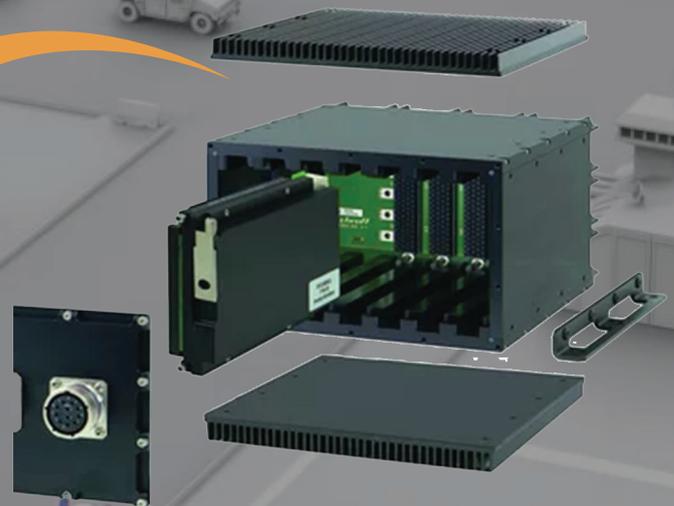
ALL PARTS AS REQUIRED  
FOR LAB BASED VPX, VME  
AND cPCI SYSTEMS



RUGGEDISED CABINETS  
TESTED UP TO MIL-DTL-901E  
FOR BATTLE READINESS



ALL PARTS FOR VPX SYSTEMS  
INCLUDING COOLING, POWER,  
AND RUGGEDISATION



# Simulate

**speedgoat**  
real-time simulation and testing

Powerful and scalable hardware-in-the-loop simulation for testing functionality, quality, and safety.

Rapidly prototype control designs by applying rapid control prototype, test embedded controllers with hardware-in-the-loop simulation of digital twins, and leverage Speedgoat systems as embedded controllers.



Early Design



Desktop Computer

Rapid Control Prototyping



Implementation

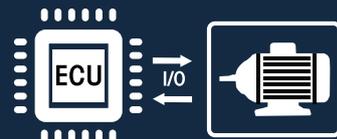


Controller

Hardware-in-the-Loop



Embedded Deployment



Controller Plant

CHOOSE FROM OVER 150 I/O MODULES, INCLUDING A SIMULINK PROGRAMMABLE RFSOC, AND MANY SUPPORTED PROTOCOLS TO PROVIDE DEVELOPMENT AND TEST SOLUTIONS FOR YOUR APPLICATION.



# Dedicated Systems

20 Years

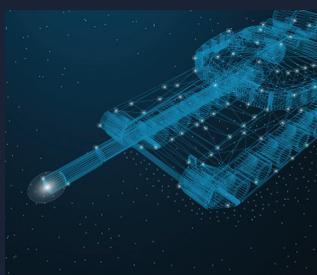
For over 20 years, leading companies have relied on Dedicated Systems to help them address the challenges of innovating, integrating and sustaining technology. Our customers build complex and critical systems, often deployed in challenging environments. Our best-of-breed products coupled with a team of highly experienced engineers help minimise risk, reduce total cost of ownership and improve outcomes.



AVIONICS



NAVAL SYSTEMS



LAND



EW/RADAR/SONAR



SPACE



CYBER SECURITY



RAIL MONITORING  
& CONTROLS



MEDICAL DEVICES



AUTONOMOUS  
VEHICLES



COMMUNICATIONS  
& NETWORKING



RENEWABLE  
ENERGY



MINING  
AUTOMATION

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