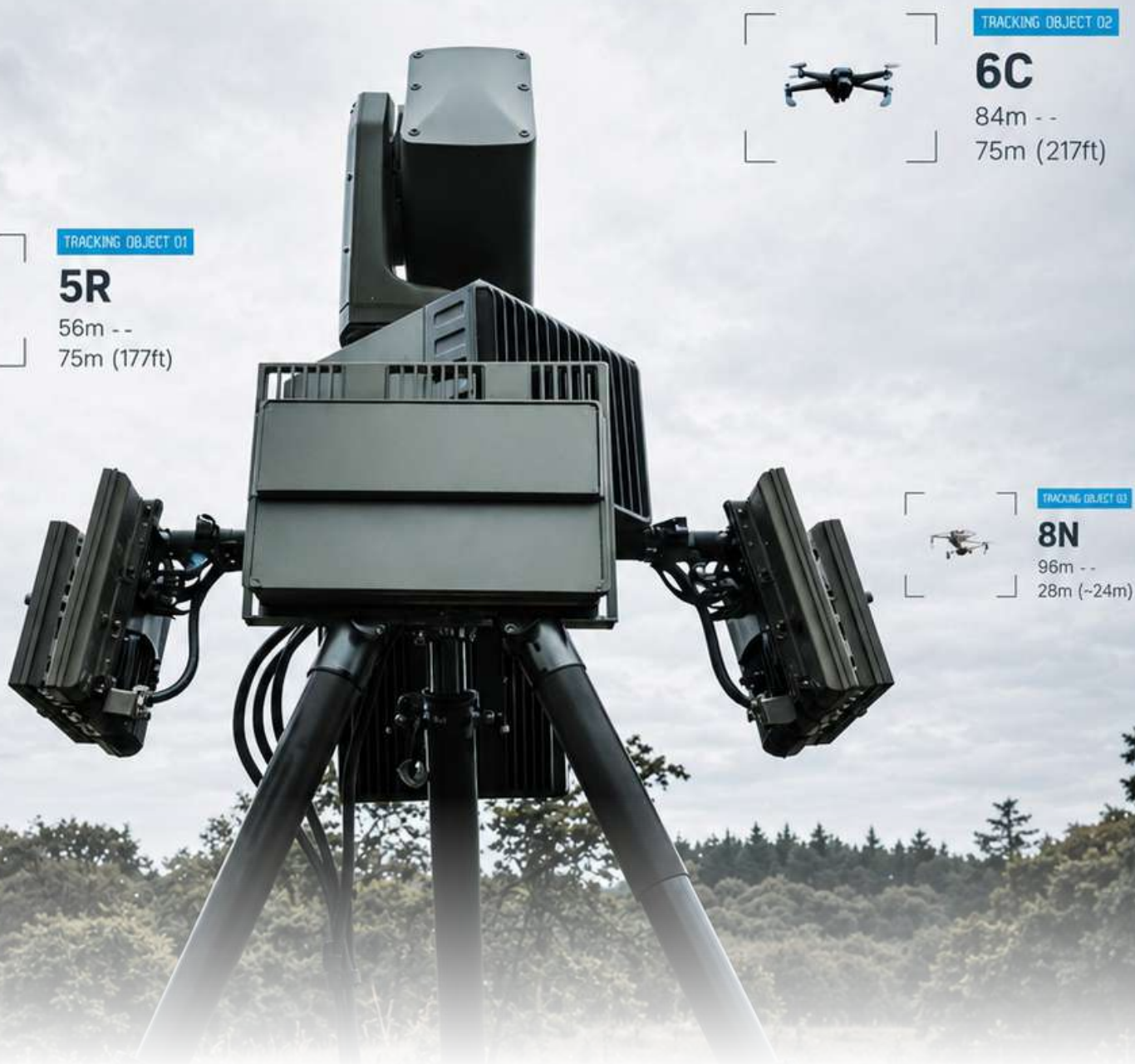


Deployment-Proven Computing Hardware Powering Mission-Critical Applications



**TRIED
TESTED &
TRUSTED**

Is your computing hardware ready for autonomous & uncrewed?



Supporting Evolving Defense Systems

- 
- ▶ Modern defense platforms depend on increasingly complex electronic systems to process, analyze and protect critical data in demanding operational environments.

From sensing and communications to electronic warfare, Edge AI and autonomous systems, increasing capability requirements are driving the need for higher performance computing hardware that can integrate seamlessly within constrained platforms.

At the same time, many defense programs remain operational for decades. Sustaining these systems while adopting new technologies requires hardware designed with reliability, configuration control and long-term availability considered from the outset.

Captec supports this evolution by delivering application-specific computing hardware engineered for deployment, integration and lifecycle assurance across naval, subsea, airborne and land applications.

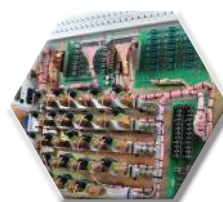
By combining proven hardware platforms with proactive lifecycle support, Captec helps sustain operational capability while enabling the continued evolution of defense systems.

- Established since 1985
- Proven track record
- Financially robust
- Tried, tested and trusted partner
- Scalability
- International reach

- ▶ UK design of custom;
 - ▶ Ruggedized high availability computers & servers
 - ▶ 19" Racks & portable cabinets
 - ▶ Electro-mechanical enclosures & PDU's
 - ▶ Electronics & PCB assemblies
 - ▶ Embedded micro-controller software
 - ▶ ISO containers
- ▶ V&V, compliance & certification

- ▶ Build-to-print, box builds, patch panels & ATE's
- ▶ Prototyping
- ▶ Custom cable assembly
- ▶ BOM management

- International manufacturing facilities
- Mature international supply chain
- Turnkey fulfilment
- Scale from one-off prototypes to high volume production





Captec systems are proudly engineered and manufactured in the UK and Canada.

Program & Project Management

- ▶ Detailed program and project planning
- ▶ Dedicated project managers and PMO
- ▶ Risk management
- ▶ Project control and reporting

Metalwork Engineering & Finishing

- ▶ Precision CNC machining capability
- ▶ Design for manufacture consulting
- ▶ Fine limit sheet metal, machining and welding
- ▶ Wet and powder coat finishing to defense standards
- ▶ Silkscreen, laser and mechanical engraving

Computer & 19" Rack Integration

- ▶ Integration of specialist computing platforms and 19" racks
- ▶ Full COTS to fully custom platforms
- ▶ Build consistency with complete component traceability
- ▶ Rugged military-grade servers and data storage systems
- ▶ High-Performance Computing, GPU processing and data encryption
- ▶ Certified to military standards

Service & Lifecycle Management

- ▶ Obsolescence management
- ▶ International service and support centers
- ▶ Designed for longevity

Deployment Applications

- ▶ Captec has been supplying specialized computing solutions and fully integrated rack enclosures to defense programs for many years. These platforms are designed to deliver reliability and performance in mission-critical applications deployed across naval, subsea, airborne and land environments.

Captec has a proven track record in developing certified complex computers, electro-mechanical enclosures, and integrated racks for a broad range of applications, ensuring compliance with required standards and operational requirements.

Why Choose Captec?

- ▶ Extensive engineering capabilities to deliver **configured and fully custom hardware systems** that meet exacting requirements and achieve a competitive advantage through innovation at the lowest lifetime cost of ownership.
- ▶ Experienced in **complex engineering programs**. Tender to deployment engagement ensures accurate definition of requirements and execution of outputs for successful project delivery.
- ▶ **Comprehensive support and service** with rapid turnaround to minimize downtime. Proactive obsolescence and change control management mitigates risk and ensures continuity of supply.



Specialized Industrial Computers

Certified, Secure, I/O Dense

- ▶ Configured for processing, security and integration requirements, combining advanced compute architectures with application-specific design to support demanding workloads where full ruggedization is not required.

Key Features:

- ▶ **Processing Performance:** Scalable CPU and GPU configurations supporting demanding compute, graphics and data-intensive applications, including high-density multi-node architectures
- ▶ **Secure Encrypted Storage Options:** Viasat DARC-ssd® 600 drives with AES-256 hardware encryption, NCSC CAPS evaluation and support for UK Top Secret and NATO Cosmic Top Secret classified information handling
- ▶ **Application-Specific Configuration:** Flexible processing, storage, networking, I/O and expansion options configured around system and integration requirements
- ▶ **Thermal & Power Optimisation:** Engineered cooling and power architectures designed to maintain consistent performance during intensive workloads
- ▶ **Optional Ruggedization:** Available with enhanced environmental protection including wider operating temperatures, shock and vibration resilience, EMC performance improvements, conformal coating and military connector options
- ▶ **Lifecycle Management:** Controlled configurations, revision management and long-term availability supporting extended program lifecycles



Specialized Industrial Computers: Reference Design Portfolio

This reference design portfolio highlights existing deployed Captec systems which can be configured, or fully customized, to match your precise project requirements.

	SES-110	SES-120	MN-01
Chassis	1U	2U	4U
Depth	522mm	522mm	676mm
CPU	14th Gen Intel Core i5 / i7	15th Gen Intel Core i5 / i7 / i9	Gold Module: Intel i9-10900E 2.8 GHz (4.7 GHz Turbo, 10C/20T) Silver Module: Intel i7-10700 2.9 GHz (4.8 GHz Turbo, 8C/16T) Bronze Module: Intel i5-10400 2.9 GHz (4.3 GHz Turbo, 6C/12T)
RAM	Up to 128GB	Up to 128GB	Up to 64GB DDR4 2933 MHz
Storage	2 x M.2 NVME 256GB-8TB	4 x M.2 NVME 256GB-8TB	1 x 2.5" or 2 x 2.5" Removable SDD (In a bank of 8 bays for the system) 1 x M.2 NVMe
Encrypted Drives	Yes	Yes	No
Removable Drives	Yes	Yes	Yes
PSU	18-36V DC	18-36V DC	110-230VAC, 50/60Hz
Network	10Gb / 1Gb / Fiber (100Gb Options)	10Gb / 1Gb / Fiber (100Gb Options)	1 x 1Gb LAN, 1 x 2.5Gb LAN Copper
I/O	USB, COM, HDMI, DP, VGA	USB, COM, HDMI, DP, VGA	2 x USB 2.0, 3 x USB 3.2
Expansion Slots	2 x PCIe x16	2 x PCIe x16	Yes
Operating Temp	0° to 40°C	0° to 40°C	0°C - 35°C
Storage Temp	-10°C to +70°C	-10°C to +70°C	-40°C - 85°C
Storage Temp	-10°C to +70°C	-10°C to +70°C	-20°C to +70°C
Defense Standards	Optional	Optional	Optional
GPU Processing Expansion	No	No	NVIDIA RTX or Quadro Graphics
Air Cooled	Yes	Yes	Yes
Power Supply Options	Yes	Yes	Yes
TEMPEST Environments	Optional	Optional	Optional
EMI Filtering	Optional	Optional	Optional
Shock & Vibration Tested	Optional	Optional	Optional

Specialized Rugged Servers

Powerful, Resilient, I/O Dense

- ▶ Engineered for harsh operating environments, combining advanced computing capability with ruggedized mechanical, thermal and electrical design to withstand demanding deployment requirements.

Key Features:

- ▶ **Certified:** Application specific certification MIL-STD-810G, MIL-STD-461F, DEF-STAN 00-35, DEF-STAN 59-411, DO-160G
- ▶ **Thermal & Power:** Optimized power and thermal architectures designed to maximize performance in SWAP-intensive applications
- ▶ **Operating Temperature:** Wide operating temperature -20°C to +55°C including cold start
- ▶ **Ingress Protection:** Enhanced protection against water, dust and environmental contaminants in deployed environments
- ▶ **Shock & Vibration:** Engineered mechanical protection aligned to deployment requirements, maintaining system integrity during exposure to shock & vibration



Specialized Rugged Servers: Reference Design Portfolio

This reference design portfolio highlights existing deployed Captec systems which can be configured, or fully customized, to match your precise project requirements.

	SRS-01	SRS-02	SRS-03	SRS-04	SRS-05
Chassis	2U	2U	1U	2U	2U
Depth	500mm	650mm	650mm	480mm	663mm
CPU	5th Gen Intel Xeon Processor	Dual 3rd Gen Intel Xeon Processor	Dual 5th Gen Intel Xeon Processor	Dual 3rd Gen Intel Xeon Processor	Dual Xeon GOLD 6326 24M 2.90GHz FC-LGA16A
RAM	Up to 2TB	Up to 4TB	Up to 4TB	Up to 4TB	Up to 2TB DDR4 3200
Storage	2 x 2.5" / 2 x NVMe M.2 256GB-8TB	16 x 2.5" 256GB - 8TB	8TB 4 x 2.5" 256GB-8TB	Internal NVMe M.2 or PXE Boot	8 x U.2/U.3 NVMe SSD PCIe 4.0 SSD
Removable Drives	Yes	Yes	Yes	Yes	Yes
PSU	18-60V DC (Optional 100-240V)	18-60V DC (Optional 100-240V)	18-60V DC (Optional 100-240V)	18-60V DC (Optional 100-240V)	18-60V DC (Optional 100-240V)
Network	4 x 100GB Fiber (MIL-STD 38999)	2 x 10GB Copper (MIL-STD 38999)	2 x 10GB Copper (MIL-STD 38999)	2 x 100GB Fiber (MIL-STD 38999)	2 x 10 Gigabit LAN RJ45 Ports 1 x 10 Gigabit LAN LC ports 1 x 1 Gigabit LAN RJ45 Ports
I/O	VGA, 2 x USB, IPMI	VGA, 2 x USB, IPMI	VGA, 2 x USB, IPMI	VGA, 2 x USB, IPMI	VGA, 3 x USB, IPMI, 1 x RS232, 1 x Audio
MIL-STD I/O Connections	Yes	Yes	Yes	Yes	Yes
Expansion Slots	2 x PCIe 5.0 x16	2 x PCIe 4.0 x16	2 x PCIe 5.0 x8	2 x PCIe 4.0 x16 (Used by 2 x NVIDIA GPUs)	6 x PCIe 4 x16 2 x M.2 PCIe 4
Operating Temp	-20° to 55°C	-20° to 55°C	-20° to 55°C	0° to 50°C	0° to 48°C
Storage Temp	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-10°C to +70°C	-40 to +70°C
Defense Standards	Designed to Meet: MIL-STD-461, MIL-STD-810H, DO-160G	Designed to Meet: MIL-STD-461, MIL-STD-810H, DO-160G	Designed to Meet: MIL-STD-461, MIL-STD-810H	Tested to: D160G, MIL-STD 810, MIL-STD-461G	Designed to Meet: MIL-STD-810H, MIL-STD-901E, MIL-STD-461
GPU Processing Expansion		Yes	Yes	Yes	Yes
Air Cooled	Yes	Yes	Yes	Yes	Yes
Power Supply Options	Yes	Yes	Yes	Yes	Yes
TEMPTEST Environments	Yes	Yes	Yes	Yes	Yes
EMI Filtering	Yes	Yes	Yes	Yes	Yes
Shock & Vibration Tested	Yes	Yes	Yes	Yes	Yes

Rack Cabinets

Modular, Certified, Deployment-Ready

- ▶ Engineered to protect and integrate critical equipment in demanding environments, combining ruggedized construction, EMC performance, cable management and power distribution within deployment-ready rack systems.

Key Features

- ▶ **Certified:** Application specific certification DEF-STAN 00-35 & MAP01-470 for shock & vibration
- ▶ **EMC:** Designed for high shielding effectiveness with integrated EMC protection, waveguides and equipment separation supporting TEMPEST requirements
- ▶ **Thermal Management:** Specialized airflow management designed to optimize forced-air cooling for integrated equipment
- ▶ **Ingress Protection:** Enhanced protection against water and dust ingress for demanding below decks environments
- ▶ **Hazard Materials:** Compliant to material hazard list
- ▶ **Security:** Supporting high assurance, NCSC accredited encryption, as well as CPNI Class 2 physical security requirements
- ▶ **CO² Extinguishing:** Integration of approved CO² injection systems for equipment protection



Rack Cabinets: Reference Design Portfolio

This reference design portfolio highlights existing deployed Captec systems which can be configured, or fully customized, to match your precise project requirements.

	RCR-01	RCR-02	RCR-03	RCR-04	RCR-05
Environment	Maritime	Maritime	Maritime	Maritime	Laboratory
Sector	Defense Naval	Defense Naval	Defense Naval	Defense Naval	Generic Military
Product Type	19" Rack	19" Rack	19" Rack	19" Rack	19" Rack
Height	36U	32U	28U	18U	36U
Depth	600-1000mm				
Weight	240-300 Kgs				
Shock	DEF-STAN 08-123	MAP 01-470	MAP 01-470	DEF-STAN 08-123	N/A
	DEF-STAN 00-35			DEF-STAN 00-35	
Vibration	DEF-STAN 08-123	DEF-STAN 08-123	DEF-STAN 08-123	DEF-STAN 08-123	N/A
	DEF-STAN 00-35	DEF-STAN 00-35	DEF-STAN 00-35	DEF-STAN 00-35	
EMC	DEF-STAN 59-411	DEF-STAN 59-411	DEF-STAN 59-411	DEF-STAN 59-411	EN 55032
					EN 55035
Temp. (Operational)	10° to 40°C 30% to 85% Humidity				
Temp. (Storage)	-20°C to +70°C 5% to 95% Non-Condensing Humidity				
TEMPEST	Yes	Yes	N/A	N/A	N/A
Noise	60-73 dBA				
IP	IP54 / IP54				
Captec designed PDU	Yes	Yes	Yes	Yes	Yes
Electrical Safety	EN 62368-1 / EN 61010-1				
115V 50/60Hz	Yes	Yes	Yes	Yes	Yes
Enhanced Shielding Effectiveness	Yes	Yes	N/A	Yes	Yes
Cable Separation for EMC	Yes	Yes	Yes	Yes	Yes
Elevated Conducted Emissions	Yes	Yes	Yes	Yes	Yes
Thermal Management	Yes	Yes	Yes	Yes	Yes
Cable Arms and Slide Rails	Yes	Yes	Yes	Yes	Yes
Bespoke Equipment Trays	Yes	Yes	Yes	Yes	Yes
Bespoke Control Interfaces	Yes	Yes	Yes	Yes	N/A
Bespoke Power Distribution	Yes	Yes	Yes	Yes	Yes
Co2/Fire protection	Yes	Yes	Yes	Yes	N/A
Fast Transient Protection	Yes	Yes	Yes	Yes	Yes
Power Smoothing and Conditioning	Yes	Yes	N/A	Yes	Yes
Bespoke Patch & Connector Panels	Yes	Yes	Yes	Yes	Yes
Compliance & Certification Required	Yes	Yes	Yes	Yes	Yes
Elevated IP Rating	Yes	Yes	N/A	Yes	Yes
Elevated Shock	Yes	Yes	Yes	Yes	N/A
Elevated Vibration	Yes	Yes	Yes	Yes	N/A

Mobile Racks & Fly-Away Kits

Portable, Rugged, Field-Ready

- ▶ Designed for rapid deployment of critical equipment in field environments, combining ruggedized protection, secure connectivity and integrated infrastructure within portable, deployment-ready configurations.

Key Features

- ▶ **Certified:** Application-specific certifications including MIL-STD-810, MIL-STD-461, MIL-STD-1275 and MAP01-470 standards
- ▶ **Connectivity:** Rugged mate-and-lock connectivity to ensure secure field reliability
- ▶ **Ingress Protection:** Water and dust protection for demanding environments up to IP67
- ▶ **EMC:** Effective shield designs for EMC compliance EN61000
- ▶ **Operating Temperature:** Wide operating temperature -20°C to +55°C
- ▶ **Shock & Vibration:** Engineered protection appropriate to the deployment requirements



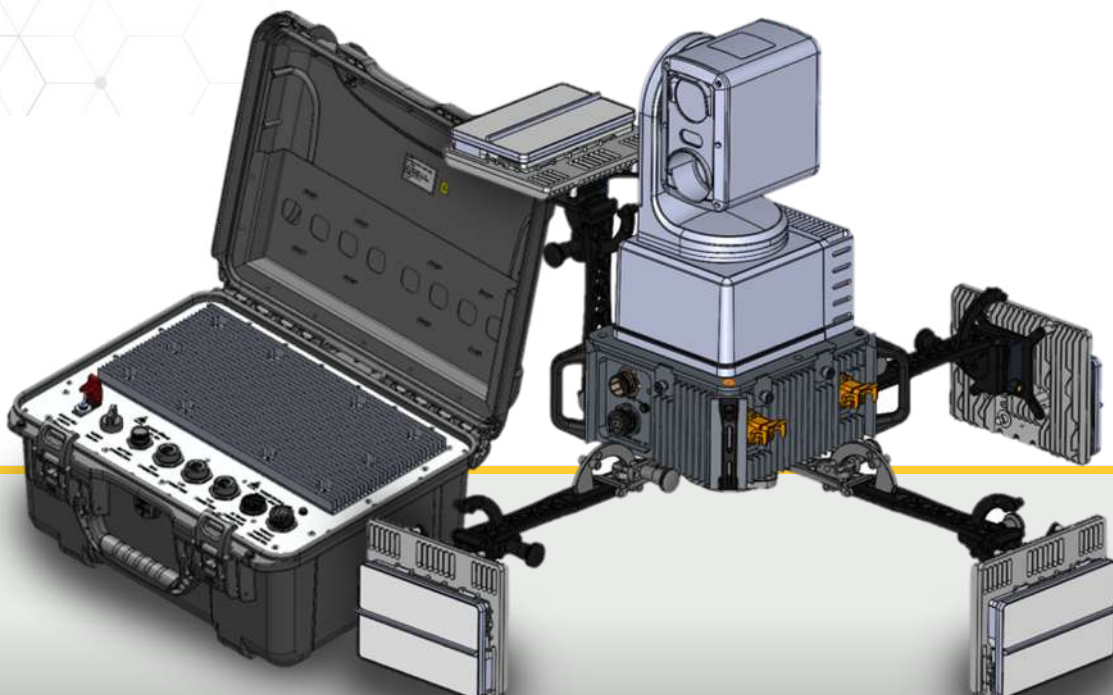
Counter-UAS & Command Systems

Detect, Track, Respond

- ▶ Enabling Counter-UAS, C2, C3 and C4ISR applications, combining proven hardware systems with engineering expertise to integrate sensing, communication, processing and control technologies deployed at the Edge.

Key Features

- ▶ **System Design Support:** Engineering support from concept through deployment, helping define hardware systems, system layouts, integration requirements and environmental considerations
- ▶ **Sensor & Equipment Integration:** Integrated systems supporting radar, EO/IR, RF, communications and specialist equipment within complex command and control architectures
- ▶ **Edge Processing & AI Acceleration:** CPU, GPU and FPGA-enabled hardware supporting Edge AI training and inferencing, sensor fusion and real-time processing of multiple data streams
- ▶ **Command & Control Interfaces:** Displays, consoles and operator systems configured to support monitoring, visualization and decision-support environments
- ▶ **Deployment Infrastructure:** Racks, portable systems and rugged computing architectures supporting fixed, mobile and deployed operational requirements
- ▶ **Secure Data Handling:** Secure computing and encrypted storage options supporting the protection, transfer and management of sensitive information



Displays

Multi-Size, Foldable and Ergonomic

- ▶ Designed for reliable visualization, monitoring and operator interaction, combining high-performance LCD technology with configurable layouts and integration flexibility for demanding operational environments.

Key Features

- ▶ **Certified:** Application specific certification, including DEF-STAN 0035 and DEF-STAN 461
- ▶ **Thermal and Power:** Optimized direct or PoE power with thermal design to maximize performance and longevity
- ▶ **Operating Temperature:** Engineered and built to withstand wide operating and storage temperature to match operating requirements
- ▶ **EMC:** Designed for use in TEMPEST applications, featuring high levels of shielding, cable management, waveguided and screening to maintain data security
- ▶ **Ingress Protection:** Water and dust protection as appropriate to meet specifications, compliance or operating requirements
- ▶ **High Brightness and Adaptive Controls:** Enabling clear visibility across varying light conditions



Laptops

Lightweight, Powerful, and FPGA-Enabled

- ▶ Engineered for field-deployable processing and analysis, combining advanced CPU, GPU and FPGA capabilities with modular connectivity to support data-intensive operational requirements.

Key Features

- ▶ **Portable Processing Performance:** High-performance CPU, GPU and FPGA configurations supporting mobile data processing, Edge AI, signal processing and advanced visualization workloads
- ▶ **Field-Ready Design:** Lightweight, toughened construction engineered for portable operation, supporting deployment where high-performance computing is required outside traditional environments
- ▶ **High-Bandwidth Connectivity:** Integrated video, network and sensor interfaces supporting real-time data acquisition from EO/IR, imaging and external sensor systems
- ▶ **Modular Expansion Capability:** Flexible I/O and expansion options enabling integration with specialist equipment, sensors and application-specific hardware
- ▶ **Environmental Compliance:** Designed to meet project-specific requirements including MIL-STD-810H and MIL-STD-461G standards



Embedded / VPX

Compact, Powerful, and I/O Dense

- ▶ Engineered for high-performance processing in space-constrained environments, combining advanced CPU/GPU architectures, sensor data handling and connectivity within compact, modular configurations.

Key Features

- ▶ **High-Density Processing:** Compact CPU and GPU architectures supporting demanding workloads including Edge AI, sensor fusion, signal processing and real-time data analysis
- ▶ **SWaP Optimized Design:** Small-form-factor architectures engineered to maximize compute performance within size, weight and power constrained applications
- ▶ **High-Bandwidth Connectivity:** Extensive video, network and sensor interfaces supporting multi-source data acquisition, processing and distribution
- ▶ **Modular System Architectures:** Configurable embedded and VPX architectures enabling flexible compute integration across a wide range of deployment requirements
- ▶ **Thermal Performance:** Engineered cooling designs maintaining consistent processing performance within compact, high-power computing environments



Consoles

Integrated, Configurable, Operator-Focused

- ▶ Designed to optimize operator interaction and system control, combining ergonomic layouts, multi-display integration and configurable equipment architecture within deployed console platforms.

Key Features

- ▶ **Certified:** Designed and qualified to application-specific defense standards, including DEF-STAN and MIL-STD compliance
- ▶ **Ergonomics & Layout:** Configurable layouts with optimized positioning of controls, displays, and interfaces for operator efficiency
- ▶ **Thermal & Power:** Power distribution engineered for reliability with integrated thermal management to ensure performance and longevity
- ▶ **Operating Environment:** Built to withstand vibration, shock, and wide operating temperature ranges across land, maritime, and aerospace domains
- ▶ **EMC & Security:** Engineered for secure operation in sensitive environments, incorporating shielding, filtering, and compliance with TEMPEST requirements
- ▶ **Ingress Protection:** Options for IP-rated housings to safeguard against dust, moisture, and environmental exposure



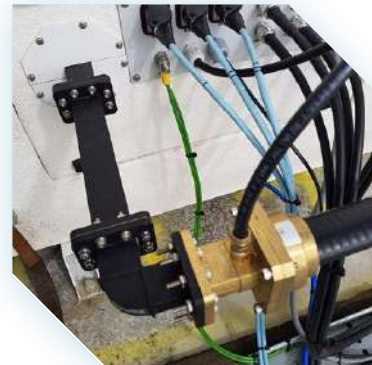
Field Deployable Shelters

Integrated, Protected, Field-Ready

- ▶ Designed to provide complete deployable environments for critical systems, integrating computing infrastructure, power distribution, environmental control and equipment protection within field-ready shelter configurations.

Key Features

- ▶ **Integrated System Infrastructure:** Configured to support specialized computers, embedded systems, networking equipment, 19" racks and supporting technologies within a unified environment
- ▶ **Power Management:** Integrated electrical systems and scalable UPS configurations supporting continuous operation and application-specific power requirements
- ▶ **Environmental Control:** Heating, ventilation and air conditioning systems designed to maintain operational conditions across extended temperature ranges
- ▶ **Environmental Protection:** Shelter configurations providing protection against water, dust and environmental exposure, supporting demanding field deployments
- ▶ **Electrical Compliance:** Electrical installation and distribution systems designed to meet applicable standards including BS 7671 wiring requirements
- ▶ **Equipment Integration:** Internal layouts, mounting systems, cabling and infrastructure configured around equipment requirements and operator needs



Subsystems Engineering

- ▶ Modern defense systems rely on complex mechanical and electro-mechanical assemblies, each designed to perform a specific function within a wider platform.

Through dedicated design support, precision manufacturing, professional finishing and electro-mechanical integration capabilities, these requirements are transformed into repeatable, production-ready subsystems engineered to meet demanding program requirements.

Why Choose Captec?

- ▶ **Defense Manufacturing Experience:** Trusted by defense and aerospace primes, delivering precision-engineered subsystems with the quality, control and repeatability required for complex programs.
- ▶ **Advanced Manufacturing Facilities:** Dedicated manufacturing capability incorporating CNC machining, metalwork engineering, professional finishing and electro-mechanical integration processes.
- ▶ **Industry-Leading Coating Capability:** 12-stage surface treatment process aligned to BR 3939 Warpaint requirements, supporting corrosion resistance, coating consistency and environmental performance.
- ▶ **Controlled Production Processes:** ISO 9001-certified quality management systems supporting inspection, documentation control and repeatable manufacturing standards.



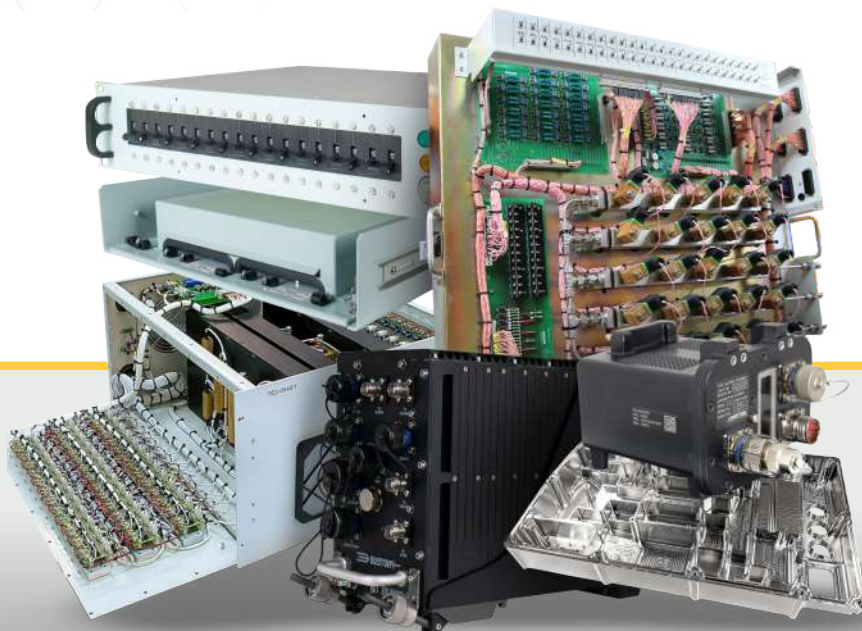
Electro-Mechanical Assembly & Manufacturing

Precision, Integration, Repeatability

- ▶ Complete build-to-print manufacturing capability combining precision metalwork, professional finishing and electro-mechanical integration. Delivering complex assemblies through controlled, repeatable production processes; reducing supply chain complexity while maintaining quality, traceability and consistency.

Key Features

- ▶ **Precision Metalwork Engineering:** Advanced manufacturing capabilities including 5-axis CNC machining, milling, turning, sheet metal fabrication, forming and welding for complex mechanical requirements.
- ▶ **Professional Finishing:** 12-stage SurTec surface treatment process supporting BR 3939 Warpaint requirements, including chemical conversion coating, wet and powder coating, curing, marking and finishing processes.
- ▶ **Electro-Mechanical Integration:** Controlled assembly of mechanical, electrical and electronic elements including connectors, wiring, cable assemblies and complete box-build requirements.
- ▶ **Design for Manufacture Support:** Engineering expertise supporting material selection, manufacturability, process optimization and transition from prototype to repeatable production.
- ▶ **Identification & Marking:** Integrated marking capabilities including silk screening, pad printing, laser engraving and mechanical engraving for application-specific requirements.
- ▶ **Quality & Process Control:** Controlled manufacturing processes, inspection and documentation supporting consistent delivery across long-term programs.

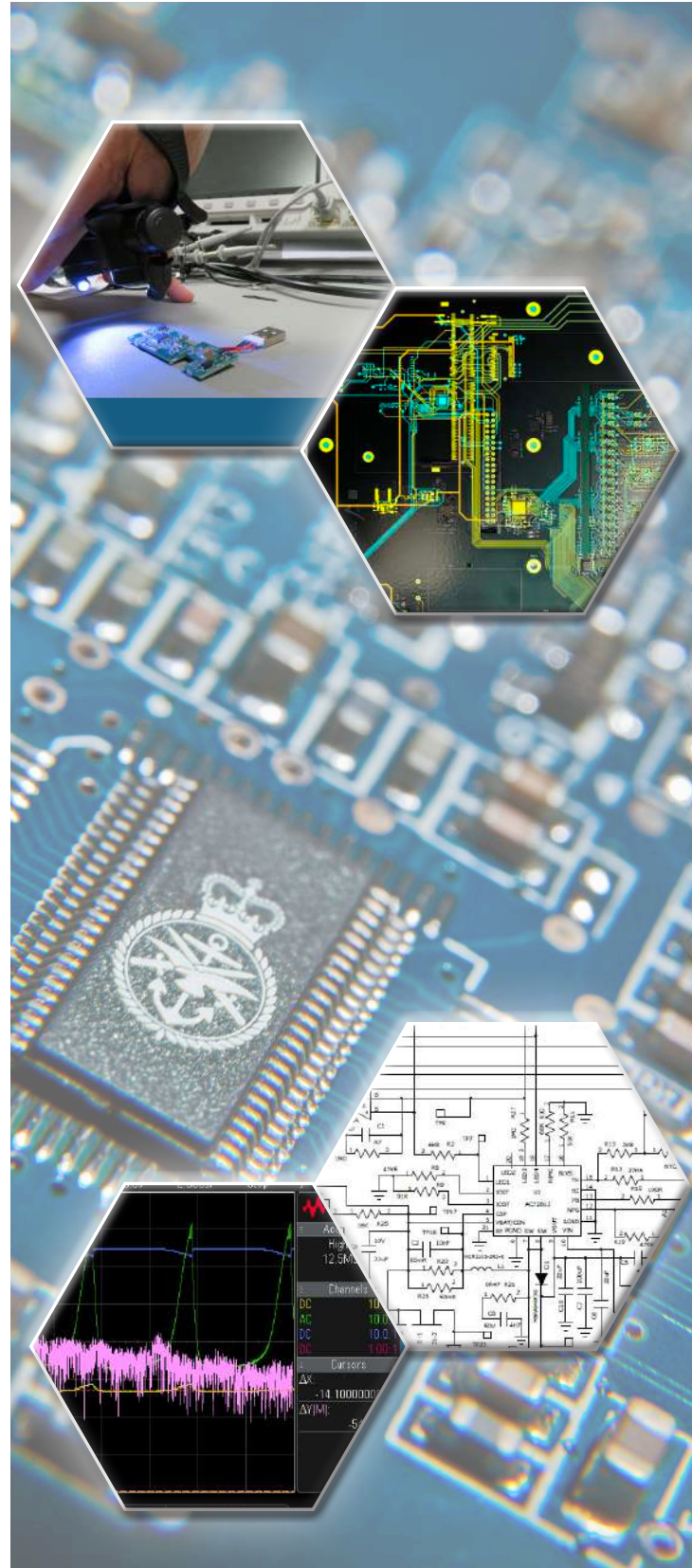


Electronic Subsystems

- ▶ Supporting the development of electronic hardware and integrated assemblies, combining circuit design, embedded processing and interconnect expertise to transform requirements into production-ready subsystems.

Why Choose Captec?

- ▶ **System Architecture Design:** Electronic engineering expertise supporting hardware architecture definition, component selection and integration requirements across complex systems
- ▶ **Electronic Hardware Development:** Design and development capabilities supporting intelligent functionality, embedded processing and application-specific hardware requirements.
- ▶ **Integrated Subsystem Development:** Combined electronics, interconnect, enclosure and assembly capabilities supporting complete subsystem delivery
- ▶ **Design for Manufacture & Compliance:** Engineering processes considering test, manufacture, serviceability, compliance and certification requirements throughout development
- ▶ **Controlled Development Approach:** Structured engineering processes supporting reliability, risk reduction and transition from development into repeatable production



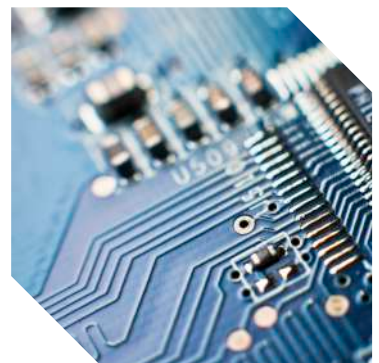
Electronic Design & Manufacturing

- ▶ **Electronic hardware engineering and manufacturing capability supporting the development, adaptation and production of specialized electronic systems for demanding applications.**

Combining design support, electronic integration, COTS ruggedization and controlled manufacturing processes, commercial and application-specific hardware is transformed into deployment-ready systems engineered for operational requirements.

Key Features

- ▶ **Electronic Hardware Design:** Electronic engineering capabilities supporting circuit design, PCB development, component selection and application-specific hardware requirements
- ▶ **COTS Ruggedization:** Adaptation of commercial hardware, including networking and communication equipment from providers such as Cisco, HPE, Dell etc. through mechanical, electrical and environmental enhancements for deployment in demanding environments
- ▶ **Sensor & Signal Processing Hardware:** Electronic systems supporting sensor measurement, signal conditioning, data acquisition and high-speed processing requirements
- ▶ **Power & Connectivity Design:** Hardware engineering supporting power management, RF communications, antenna integration and high-speed digital interfaces
- ▶ **PCB Development & Manufacture:** PCB design, prototyping, production management and component sourcing supporting controlled manufacturing requirements
- ▶ **Proactive Lifecycle Management:** Component selection, obsolescence management and through-life manufacturing support aligned to long-term program requirements



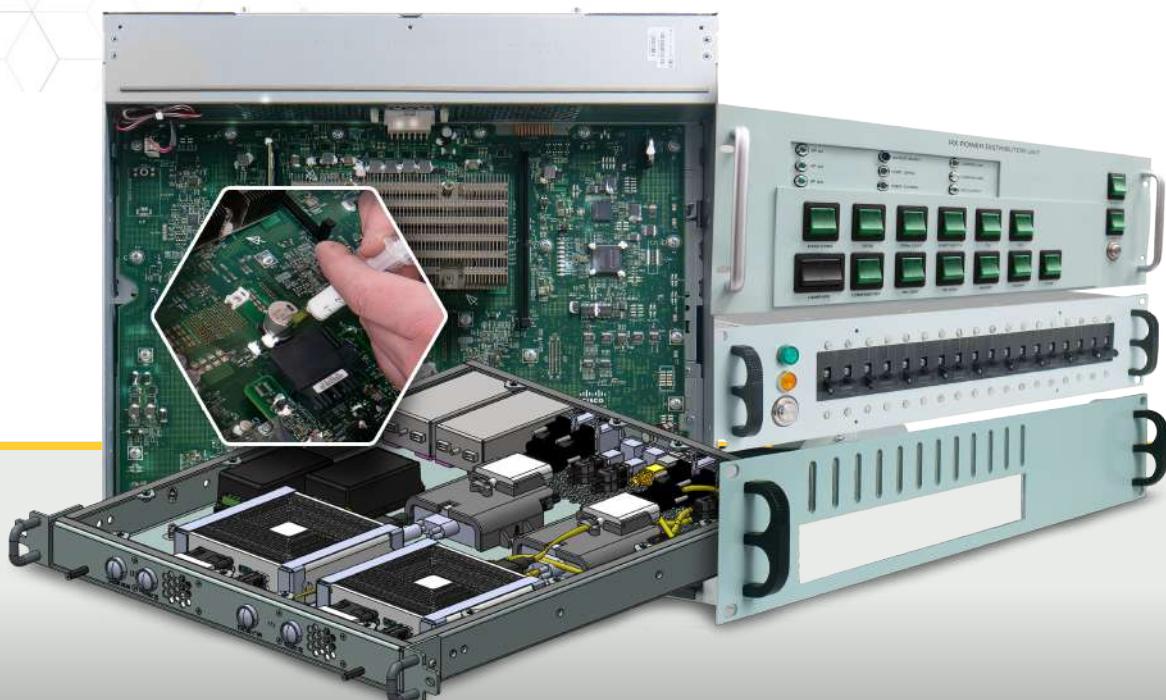
Deploying Commercial IT & Accessories

Ruggedized, Unified, Configured

- ▶ Commercial IT technologies provide proven performance and functionality, but often require adaptation to meet application requirements. Captec supports the ruggedization and configuration of these technologies for operational environments, developing supporting accessories and subsystems including power distribution, carrier trays and mechanical enhancements to deliver unified systems ready for deployment.

Key Features

- ▶ **Commercial Technology Adaptation:** Ruggedization of proven commercial equipment, including Cisco technologies, supporting operation within demanding applications
- ▶ **Supporting Hardware:** Development of supporting hardware including PDUs, UPS systems, carrier trays and mechanical assemblies configured around application requirements
- ▶ **Environmental Protection:** Mechanical and environmental enhancements supporting deployment within demanding operational conditions
- ▶ **System Configuration:** Integration of equipment, interfaces and supporting infrastructure into unified systems aligned to application requirements
- ▶ **Lifecycle Management:** Configuration control, revision management and lifecycle support for long-term program availability



Trusted by the World's Leading Organizations

The Airbus logo, consisting of the word "AIRBUS" in a bold, blue, sans-serif font.The BAE Systems logo, featuring the words "BAE SYSTEMS" in white, sans-serif font inside a red rectangular box.The Babcock logo, with the word "babcock" in a blue, lowercase, sans-serif font.The L3Harris logo, featuring a red wireframe globe icon followed by the text "L3HARRIS" in a black, sans-serif font.The Ultra Maritime logo, with the words "ULTRA MARITIME" in a blue, sans-serif font.The General Dynamics logo, with the words "GENERAL DYNAMICS" in a blue, sans-serif font.The GeoSpectrum Technologies Inc logo, featuring a blue globe icon with "GTI" inside, and the text "GeoSpectrum Technologies Inc" below it.The Lockheed Martin logo, with the words "LOCKHEED MARTIN" in a blue, sans-serif font, followed by a small star icon.The Mahindra Rise logo, with the word "mahindra" in red and "Rise" in a smaller, red, sans-serif font.The QinetiQ logo, with the word "QINETIQ" in a blue, sans-serif font.The Anschütz logo, featuring a red circular icon with a white symbol, followed by the word "ANSCHÜTZ" in a red, sans-serif font.The Thales logo, with the word "THALES" in a blue, sans-serif font.The SEA logo, with the word "SEA" in a blue, sans-serif font, followed by a blue circular icon with a white symbol, and the text "A COHORT PLC COMPANY" below it.The Rheinmetall logo, featuring a blue square icon with a white symbol, followed by the word "RHEINMETALL" in a blue, sans-serif font.The Northrop Grumman logo, with the words "NORTHROP GRUMMAN" in a blue, sans-serif font.The Hensoldt logo, with the word "HENSOLDT" in a green, sans-serif font, followed by a green circular icon with a white symbol, and the text "Detect and Protect." below it.The Leonardo logo, featuring a red star icon followed by the word "LEONARDO" in a red, sans-serif font.The DGL Drumgrange logo, with the letters "dgl" in a blue, stylized font, and the word "DRUMGRANGE" in a blue, sans-serif font.The TKMS logo, with the letters "TKMS" in a bold, black, sans-serif font.The AWE logo, with the letters "AWE" in a green, stylized font, followed by a green circular icon with a white symbol.

TRIED TESTED & TRUSTED



CAPTEC

Solving defense hardware needs
for mission-critical environments

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