

DEFENCE PLATFORM ELECTRONICS

Future-Ready and
Built for the Digital Edge





DEFENCE PLATFORM ELECTRONICS

Our Defence Platform Electronics (DPE) deliver the **digital backbone** that modern military platforms depend on to operate, survive, and win in complex environments.

Designed for **deployment at the tactical edge**, our solutions integrate **mission-critical computing, communications, enhanced situational awareness**, and electronics into rugged, modular architectures that perform reliably under the most demanding conditions.

At the core of our value proposition is platform adaptability. Our solution is engineered to be **open, scalable, and configurable**, enabling rapid integration of new sensors, AI workloads, communications modules, and mission systems. This allows platform providers and system integrators the ability to evolve capabilities faster, extend platform life, and tailor systems to mission needs without costly redesigns.

Built to military standards and proven in operational environments, our Defence Platform Electronics provide **resilience, interoperability, and assured performance** – empowering commanders with seamless connectivity, secured information sharing, and a decisive digital advantage where it matters most.



UNLEASHING PLATFORM POTENTIAL

As battlefields become increasingly digital and AI-driven, military operations require a level of computing power, adaptability, and digitally-enabled platforms that can evolve alongside emerging threats and technologies.



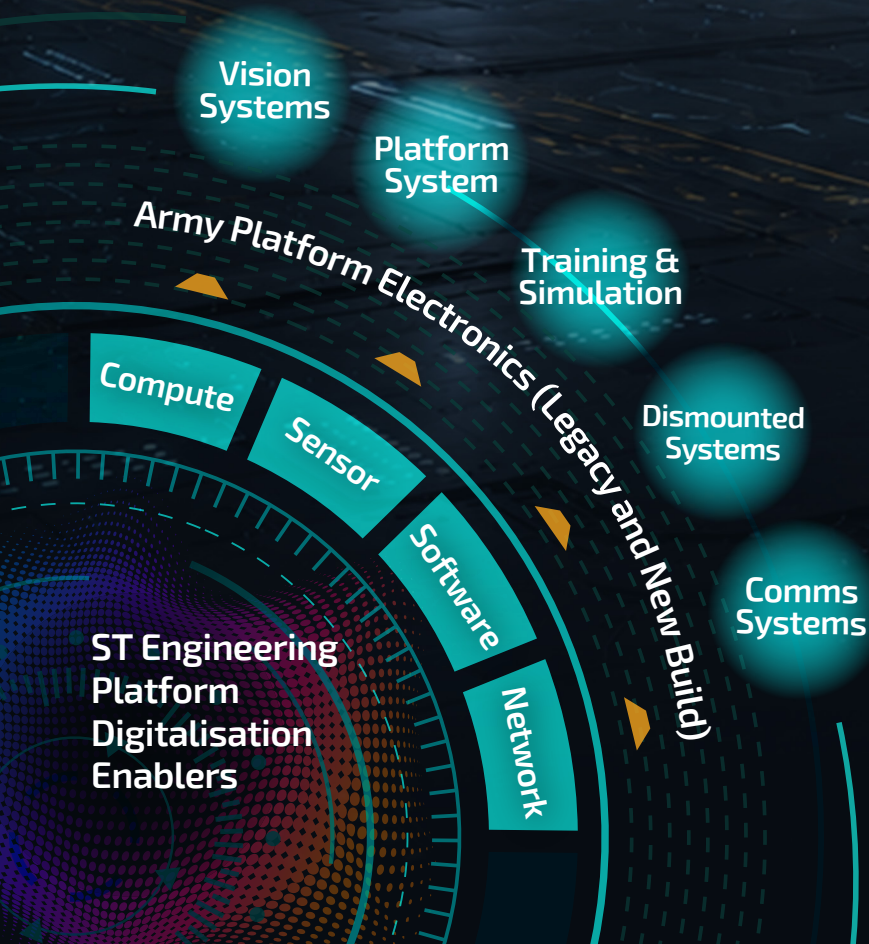
YOUR EDGE IN THE MODERN BATTLEFIELD

Our DPE provides a robust command and control foundation that enhances situational awareness, transforming each vehicle into a powerfully connected node in today's digitalised battlespace.



Capability Enabler

Designed as an open, scalable platform, our Defence Platform Electronics allow partners to rapidly plug in sensors, communications, effectors and applications that drive AI, cyber and C2 simply and efficiently. Our DPE enables our partners to focus on what they do best – delivering differentiated capabilities, while ensuring solutions remain interoperable, future-ready and powerfully connected across domains.

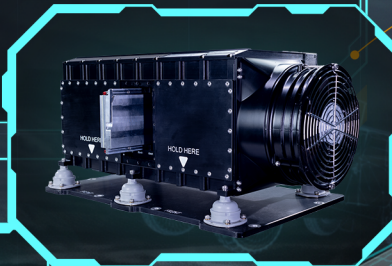


HIGH-TECH CAPABILITIES

COMMAND & CONTROL

Designed to meet stringent military standards, ensuring secure, reliable operation in the most demanding environments.

- Integrated Battlefield Management System
- Smart Display Panels
- Modular Computing Server
- Rugged Computers



LOCAL SITUATIONAL AWARENESS

Video system that provides a 360° view of the vehicle surroundings for local situational awareness and driver vision enhancement.

- Fusion Camera
- Integrated Driver Display Panel
- Video Control Unit





COMMS & CONNECTIVITY

Empowering seamless communication with a digital backbone featuring open architecture for satcom and high-mobility 5G.

- Communications-on-the-Move
- Satcom Integrated Module
- Vehicular Integrated Communications System



COUNTER-UAS PROTECTION

Vehicle-mounted Counter Unmanned Aerial System (Counter-UAS) protection provides mobile forces with real-time, on-the-move defence, enhancing convoy survivability and safeguarding high-value assets.

4D Operational Concept

- Detect
- Decide
- Disrupt
- Destroy

SCALABLE FLEXIBILITY

Highly Configurable to Multiple Platforms

Standardised interfaces and scalable hardware for compute, communications and local situational awareness enable rapid tailoring to platform size, mission role and operating environments – ensuring that our DPE modules are configurable across multiple vehicular platforms whilst meeting SWaP-C requirements.

This scalable approach reduces integration risk, shortens deployment timelines and ensures consistent battlefield management capabilities across forces – allowing each platform to be optimised for its specific operational role.



ARMoured FIGHTING VEHICLE

Size, Weight, Power & Cost (SWaP-C)

Upgrading existing platforms reduces the need for costly full replacements while extending asset lifespan.

Scalability

Modular designs and digital integration allow systems to evolve with changing mission needs and technologies.

Sustainable Platform Modernisation

The battle-tested, reliable and robust vehicle platform merges with modular architecture that supports upgrades and modernisation, mitigating obsolescence and reducing life cycle costs.

Combining the best of what's proven with the power of what's possible.



PROTECTED VEHICLE

Interoperability

Modernised platforms can seamlessly connect and communicate with both traditional and next-gen systems.

COMMAND AND CONTROL

A tactical system that networks the entire battalion from platforms down to individual soldiers for shared situational awareness and collaborative engagements, creating a force multiplier effect to achieve a Networked Force for a Common and Relevant Operating Picture.

Collaborative Concept of Operations

- Allows the vehicle commander and the gunner to operate the digitised vehicle with a common set of controls
- Allows the crew to operate with a modernised soldier-centric combat user interface (UI) design for improved operational effectiveness
- Provides collaboration tools that allow commanders to participate in mission planning, fast collaborative targeting, and engagement capabilities



COUNTER-UAS PROTECTION

Vehicle-mounted Counter-UAS protection provides mobile forces with organic, on-the-move defence against hostile drones. Integrated directly onto the platform, the system enables armoured vehicles and convoys to detect, assess and counter aerial threats in real time – without relying on fixed site defences.

This added layer of physical protection enhances convoy survivability, protects high-value assets and ensures freedom of manoeuvre – delivering, resilient, close-in air defence at the tactical edge.

**Hostile drone
detected and
neutralised**



TRAINING AND SIMULATION

TRAIN IN REAL-WORLD SCENARIOS

Immersive environments that mirror actual tactical and mission conditions.

BOOST SKILLS & MISSION READINESS

Strengthen decision-making, teamwork, and performance – all in a controlled setting.

ADVANCED & SCALABLE SIMULATION

Flexible, high-fidelity simulation technology for safe and comprehensive training.



ABOUT ST ENGINEERING ADVANCED NETWORKS & SENSORS

With more than 30 years of proven track record delivering products, network infrastructure and system agencies, we provide bespoke end-to-end turnkey support to meet your customers' unique challenges and business needs.



ST Engineering Advanced Networks
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