



ELECTRONIC COMPONENTS & SYSTEMS

Supplier Capability Brief

Electronic components and systems form the backbone of modern defence capability — powering sensors, radar, communications, EW systems, guidance units, onboard computing, power management and more. As defence platforms become increasingly digitalised and electronics-heavy, Primes and OEMs require secure, resilient, high-reliability suppliers across semiconductors, PCB assembly, RF systems, embedded computing, connectors, cabling, power electronics and ruggedised systems.

Core subcategories

- Semiconductors, microelectronics and power devices
- PCB fabrication, assembly and high-reliability PCBA
- RF components, microwave systems and antennas
- Embedded computing, processors and digital control units
- Cables, connectors, harnesses and interconnect systems
- Ruggedised electronics and defence-grade enclosures
- Power management, conversion and distribution systems
- Sensor systems, actuators and electro-mechanical components

Market outlook

Demand for defence-grade electronics is accelerating rapidly as platforms become more connected, autonomous, computationally intensive and reliant on resilient digital architectures.

Overall, electronics and embedded systems represent one of the fastest-growing and most strategically important elements of the defence supply chain.

Key market indicators:

- **Defence electronics market:** ~\$105B in 2024 : ~\$155B by 2030 (CAGR ~6-7%)
- **Global military communications & C4ISR electronics:** ~\$60B in 2024 : ~\$90B by 2030
- **RF/microwave components for defence:** ~\$8B in 2024, strong demand driven by radar and EW modernisation
- **Power electronics for aerospace/defence:** ~\$4.5B in 2024 : ~\$7B by 2030 (CAGR ~7%)
- **Ceramics & CMCs:** ~\$3.8B in 2024 : ~\$6B by 2030 (CAGR ~7-8%)
- **European defence electronics manufacturing expansion driven by semiconductor security and sovereign capability initiatives**

Typical defence applications

- Radar, sonar, EW and electro-optical systems
- Guidance, navigation and control units for missiles and UAVs
- Mission computers, onboard processing and embedded control
- High-reliability PCBA for avionics, munitions and ground systems

- Communications,datalinks,secure networking and encryption hardware
- Power distribution units, conversion modules and energy storage interfaces
- Sensor arrays, actuators, mechatronics and electro-mechanical subsystems

Who should exhibit

- Electronics manufacturers and component suppliers
- PCB and PCBA producers (defence-grade, high-reliability)
- RF, microwave and antenna technology specialists

- Embedded computing and digital systems providers
- Connector, cable and harness manufacturers
- Rugged electronics and enclosure suppliers
- Power electronics and energy-conversion companies
- Sensor, actuator and mechatronic subsystem suppliers

What primes & OEMs are looking for

- Secure, resilient electronics suppliers with European manufacturing capability
- High-reliability components suitable for harsh, mission-critical environments

- Trusted semiconductor and microelectronics sourcing pathways
- Advanced PCBA with rigorous QA, traceability and testing
- RF/microwave expertise for radar, EW and communications programmes
- Embedded computing partners supporting autonomy and digitalisation
- Electronics providers capable of scaling production for rapid defence uplift

Showcase your **ELECTRONIC COMPONENTS, SYSTEMS** and **ADVANCED PCBA CAPABILITIES** to defence engineering, procurement and programme teams who are **ACTIVELY IDENTIFYING** and **ONBOARDING** new suppliers across Europe.

