Certifications and Qualifications

Quality ISO 9001:2008 Certified Company since 1994
NATO Basic Ordering Agreement (BOA), Number 9092
UK National TEMPEST Authority (CESG) Registered
TEMPEST Test Cells Approved by CESG (Facility Qualification)
UK Defence Listed Supplier
Approved Crypto Custodian
Advanced Category 4 Approved TEMPEST Tester
Solving Mobility Challenges
As customer expectations continue toward the utilisation of standard IT devices in modern vehicles, the requirement to integrate personal and business IT platforms into vehicles is paramount. The subtle modification of commercial products is at the core of our business, designing attractive, custom solutions and manufacturing to low volume but with the highest quality and industry standards.

Integration or Customisation
SST works closely with clients to customise devices including ruggedisation and custom enclosures. This includes RFI Shielded Enclosures which house and protect existing communications devices, eliminating the need for costly replacements and modifications.

Security Products
SST™ is an approved Crypto Custodian with CESG accreditation. These credentials, combined with our domain experience, mechanical design skills, RF knowledge, and ICT expertise, allow us to create a wide range of our own security products. SST security products include network switches, RFI shielded enclosures, mobile tactical wireless and satellite communication solutions, and these systems can address various security considerations including secure communications on the move or secure data-at-rest.

SST also works closely with other industry leading security product companies to ensure seamless integration of approved encryption and security capabilities, including high grade IP encryption devices, secure memory devices, smart card readers, secure KVM switches, fibre isolation switches, disk encryption software, and encrypted disk modules.

Bring Your Own Device
In addition, many businesses have chosen to enable staff and contractors to utilise their own personal IT equipment at work to save on device costs. For secure agencies and contractors conducting business on devices (such as tablets) can lead to security issues in sensitive environments. SST offers hardware modifications to commercial items like these tablets to remove security threats such as cameras and microphones.
TEMPEST Services

Consulting & Programme Support

SST offers our clients customised consultancy, particularly in the fields of COMSEC and EMSEC, and including confidential consultancy throughout a TEMPEST project. From writing TEMPEST control and test plans to testing and test reports, we work closely with CESG to provide our customers with an efficient route to CESG approval. If SST is engaged early in this process, we can help our clients navigate through any TEMPEST issues that may arise during the approval progression.

In addition to our consulting offerings, SST also provides highly seasoned and experienced project managers with expertise in the fields of COMSEC and EMSEC for government and NATO projects. These project managers can support your programme at every stage including risk assessment, management, planning, ILS, QA, and implementation.

Training

SST has a unique position as a 100% security cleared, UK Government accredited facility with more nearly 30 years experience. This, coupled with our expertise in offsite mobile platform testing, equipment installation, consultancy, and programme management, makes SST well positioned to support customers in all aspects of TEMPEST training.

We offer a number of comprehensive courses that can be tailored to meet your exact requirements. Training can take place at our Gloucester facility or on-site at the customer location.
TEMPEST Products

SST™ provides SDIP-27/1 Level A (Full Tempest), Level B (Intermediate) and Level C (Tactical) products, depending on the client's requirements. These products are made to meet the most stringent of standards, including SDIP-27, NATO Standard, NATO Laboratory Test, NATO Zoning, and US NSTISSAM /1-92.

No matter the level of security, a device still needs to function as originally intended, and it ideally has to evade detection by looking like any other comparable device. Most TEMPEST products become rather unwieldy due to the modifications necessary to secure them. According to the requirements of our clients at the time, SST was able to produce the world’s lightest Level A TEMPEST Laptop to meet their needs. This is just one example of how SST ensures that product form and functionality are not compromised by our TEMPEST process and the users’ needs are considered at all times.

TEMPEST products include:

- PCs
- Laptops
- Thin Clients
- Workstations
- Monitors
- Tablets
- Printers & Multifunction Devices
- Scanners
- Enclosures
- Networking
- Peripherals
- Mobile Devices
- Video Teleconferencing (VTC)
- Voice Equipment
- Rugged TEMPEST Systems

SST’s UK Government security cleared, purpose-built production facility in Gloucester is the UK’s largest commercial TEMPEST facility.
Rugged and Bespoke IT

Our Approach

Our Rugged IT product line provides NATO, military, and defence organisations with communications devices that can withstand even the most brutal environmental conditions, such as extreme high temperatures, dust, wind, and moisture. Due to our distinctive engineering, design, and manufacturing process, we have the flexibility to rapidly ruggedise virtually any communications device based on the individual requirements of our clients. These rugged products can also be made to TEMPEST standards, making them both secure and highly durable.

Mechatronics, our multi-disciplinary approach to system design, is the synergistic combination of mechanical, electronics, computer, and systems design engineering that unites these elements to generate a simpler, more economical, and reliable system. Our approach allows SST™ to be nimble enough to rapidly develop products for our clients - cutting down concept to delivery times to as little as six weeks in some instances.

Specialised Engineering and Testing Standards

SST understands the unique situations that our products will encounter when being used in the harsh conditions of the field. With that in mind, we can design, engineer, and manufacture these devices to withstand severe testing procedures, including shock, vibration, and 24 hour soak tests. We also offer in-house environmental confidence testing and stress screenings on finished products for risk reduction and to ensure environmental compliance.

Quality Solutions to Meet Rigorous Standards

Our products are rigorously designed and tested to meet international military standards (MIL-STD 810) and UK Defence Standards (Def Stan 00-35).

All of our rugged products are made to conform to the highest EMC and Environmental Standards depending on their end-use, including MIL-STD-810, Def Stan 00-35, STANAG 2895, STANAG 4370, AECTP 100, AECTP 200, AECTP 250, AECTP 300, AECTP 400, AECTP 500, and EN60529.
Bespoke Products

SST™ can modify commercial off-the-shelf products such as computers, laptops, docking stations, and tablets, or we can work with our clients to create customised devices when a COTS product of their choosing is not readily available. No matter how unique or complicated customer requirements may be, SST can create a bespoke solution that will fulfill all our customers’ needs. Our designers and engineers create products with all of the necessary technical functionality, plus we can also then ruggedise it to withstand rough handling and harsh environments.

Many military clients also require that these products be secured to TEMPEST standards. Because of our multi-disciplinary mechatronics approach, we can quickly and efficiently integrate these two features in a single product that meets all of the clients’ stringent requirements. At the same time, we ensure that functionality and usability are not compromised by the TEMPEST or ruggedising process. The end result is a highly technical, functional, and secure device made to the customer’s exact specifications.

Applications

For our military and defence clients, SST has created rugged SatCom terminals, notebooks, monitors, networking devices, and printers for wheeled and tracked vehicles, as well as for land, sea, and air installations. These products have been adapted to thrive in brutal environments from scorching deserts to sub-freezing tundra, on vehicles traversing through harsh terrain, and in high sunlight conditions where clear visibility would not be possible with unmodified devices.
API Technologies Corp. is a trusted provider of RF/microwave, microelectronics, and security solutions for critical and high-reliability applications. The company designs, develops, and manufactures electronic components, modules, systems, and product for technically demanding defense, commercial/industrial, and aerospace applications. API Technologies’ customers include many leading Fortune 500 companies, as well as the majority of NATO governments. While API was founded in 1981, our heritage brands have served the demanding, hi-rel marketplace for more than 70 years. API Technologies trades on the NASDAQ under the symbol ATNY.

About API Technologies

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API’S Secure Systems & Information Assurance (SSIA) Group

Secure Systems and Information Assurance (SSIA) solutions by API Technologies provide unparalleled security for both government and commercial customers worldwide. Featured product lines include the EMCON® (USA & Canada) and SST™ (Europe) brands, the Netgard® line of security and encryption products, and the ION Networks® line of network security devices for remote device management.

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