



Advanced Programs, Inc. (API)

Your TEMPEST Partner

Company Profile

API has for over 20 years been endorsed by the National Security Agency to design, build, test and deliver TEMPEST equipment to all NATO nations. API offers emanation secure versions of leading edge business class computing devices from major industry manufacturers as well as custom designed products to accommodate special requirements. These solutions are being utilized by NATO bodies, federal governments, ministries, the intelligence community and defense prime contractors.

Overview

The company has earned its reputation as a global leader by providing highly reliable, end-to-end integrated IT solutions; outstanding program management; life-cycle maintenance, support and training; and by joining their customers in a commitment to the success of their mission. These qualities have allowed us and our customers to deploy API's solutions in over 100 countries for mission critical requirements.

Our skilled engineers have designed innovative packaging techniques to optimize system designs for weight, size, and power without compromising performance. The TEMPEST certified engineering team is committed to providing API clients with the most up-to-date office products on the market, built to perform exceptionally well in a variety of environments, while protecting data from outside detection.

Our primary goal is to provide state of the art TEMPEST solutions to our clients. The majority of our products are based on commercial off the shelf (COTS) equipment from

recognized and reputable manufacturers which ensures not only the dependability of your TEMPEST product, but also compatibility with your existing office machines. API understands the need for TEMPEST equipment in cramped and rugged environments and offers an array of products designed and built to offer the highest quality performance with space saving design and shock resistant construction – perfect for mobile office and deployment environments.

Company Offices:

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Products

API offers a full spectrum of TEMPEST products. These products are commercial products designed and modified to meet rigorous NSA and NATO specifications (SDIP 27 Level A & B) for minimizing electro-magnetic emissions, providing protection from unauthorized access to sensitive and classified electronic information. We offer emanation secure versions of current business-class computing devices such as:

- Desktop computers, Thin clients and Workstations
- Laptops and Notebooks
- LCD Displays
- Printers, Scanners, Faxes and Multifunction Imaging Devices
- Routers, Switches and Media Converters
- IP Telephony and Video Conferencing
- EMC High Attenuation Server Cabinets
- Accessories and Peripherals

Engineering and System Design Services

API applies innovative packaging techniques to optimize system designs for weight, size, and power. Designs are highly integrated with considerations and features to ease the level of effort of deployment and maintenance. The company also specializes in systems that are often deployed into rugged and challenging environmental conditions. The ability to meet these stringent environmental specifications as well as challenging EMI requirements differentiates us from other companies. Engineering practices such as 3-D modeling, cross-function critical-design review teams and rapid prototype-development have ensured mission success for our customers.

This methodology has been applied to a wide array of requirements, including:

- Embedded systems
- Rugged equipment
- Shock, vibration, heat, etc.
- TEMPEST and EMI

- Rapid prototyping
- Scalability, reconfigurability
- Technology refresh and insertion
- Special form factors

Our 21 design engineers (specialized in the area of electrical, mechanical, RF and systems designs) are dedicated towards introducing and providing best-of-breed TEMPEST products to you and your technical needs.

Accreditation

API is an NSA-endorsed test services facility and an NSA-endorsed TEMPEST manufacturing facility with 8 TEMPEST-approved Test Chambers. Additional qualifications include:

- Advanced CTP (NSA) Certified Level A & Level B TEMPEST Technicians
- Quality EN ISO 9001:2000 certification (U.S.)
- Quality EN ISO 9001:2008 certification (U.K.)
- NATO Basic Ordering Agreement (BOA), no. 9768
- Number of personnel clearances to NATO SECRET level

Assembly and Manufacturing

API offers complete ISO 9001 certified production services. From prototypes to full production runs, we provide pre-production support, configuration management, and full life-cycle support for both in-house and customer provided designs, for many programs that are up to 10 years in service.

Care is taken to formalize scalable assembly processes for high quality and repeatability over the life of the program. This allows API to quickly react to changes in the mission of our customers such as surge requirements and new feature sets.

Production is performed at our Columbia, MD (USA) and Salem, N.H. (USA) facilities with over 6000 m² (65000 ft²) of combined manufacturing and office space.

Life-cycle Support

For over 30 years API has excelled at programs responsible with field-site deployments for military and intelligence community missions. This support includes configuration mgmt, documentation, training, installation, depot repair, maintenance, support and issue tracking. API carefully selects components that will provide an extended program life as such.

Testing

The API test team strives for a "get it right the first time" performance. A comprehensive testing strategy conducts incoming component inspections, work-in-progress inspection, and thorough verification and validation for prototypes as well as statistically appropriate levels of production sampling. Types of testing include functional, stress, thermal, TEMPEST, and EMI.

Product Repairs

API's Customer Service Team goal is to provide warranty service which exceeds the manufacture's policy. We also offer extended maintenance contracts for extra product coverage. API can also arrange for specialized repair and warranty agreements, including:

- Repair services performed in Europe
- Repair services performed in secure facilities by cleared personnel
- On-site repairs
- Extended warranties
- Staging of spare equipment and parts
- Configuration control, tracking and management
- Training and support for customer-based repairs

Consultation

API offers security consultation services to provide training in the areas of risk assessment & awareness, EMC, and TEMPEST engineering and installation techniques.

Training

API provides formal training courses for the maintenance and repair of our products. Attendees of an API training class will learn the proper disassembly and reassembly techniques for a particular product or group of products, reporting requirements, and the techniques needed to ensure that the TEMPEST integrity is not compromised. The training sessions are designed for those who are already familiar with basic computer troubleshooting techniques.

The TEMPEST compliance of all equipment manufactured by API is guaranteed for the life of the product, provided any repairs are performed by API staff or technicians that have attended appropriate API training.

Quality

API is firmly committed to providing 'Customer Satisfaction' through superior quality in products and services by delivering on time and meeting or exceeding the customer requirements.

To uphold the highest possible quality API follows a stringent methodology process of vendor quality management, incoming quality control inspection, in-process quality assurance, final assembly inspection, a contract audit and a TEMPEST production audit.