



Elemaster offers customized solutions ensuring the highest level of expertise in every phase of the production process.

With our international EMS centers, sales offices and R&D departments, we can support customers worldwide.



HEADQUARTERS RESEARCH & DEVELOPMENT MANUFACTURING CENTERS SALES / SERVICE OFFICES

AREAS OF SPECIALIZATION



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International Design Centers
Innovation in Electronics



ELEMASTER.COM



ELEMASTER INTERNATIONAL DESIGN CENTERS INNOVATION IN ELECTRONICS

Elemaster Group is an ODM-EMS European leader in design and supply of electronic boards, complete products and system solutions for OEM Customers.

From Railways and Medical to Industrial, Automotive and Avionics sectors, we design advanced products, platforms for long life cycle, high reliability and mission, safety critical applications.

Electronic products development, co-development from concept feasibility to fast prototyping, from pre-serial to mass production: we create real turnkey solutions with the lower total cost.

Elemaster Group is present with its EMS facilities in all the continents, Europe, America, Africa and Asia.

The Design Centers do research and develop electronic application technologies in partnership with the major international chipset and components makers, we propose innovative solutions starting from state of the art to new architectural feasibility studies, simulation and proof of concepts of software, hardware, enclosures, mechanical components.

The wide range and multidisciplinary competences and the long experience coming from different sectors (railways, robotics, advanced medical technologies, automotive, energy) generate through the cross fertilization a

unique rich environment where the creativity of the design teams can generate innovative, reliable, safe, green and cost competitive products.

In such a challenging and complex market, with more and more "drive by data" society, our Design Centers cooperate with institutional public and private Universities, National and International research centers, support and boost the business of new companies, start-up and inventors. Thanks to our international organization and network we can downsize the investments and the industrial risk, enabling a fast positioning of the products and solutions on the market.

The Design Centers ISO 14001:2015 develop and certify, as customers' partners, starting from requirements to complete embedded platforms, hardware, firmware, software, radio frequency, product styling, mechanical engineering all under certified processes: ISO 9001:2015 for Industry, ISO/TS 22163:2017 for Railways ISO 13485:2016 for Medical, as unvaluable service is the internal accredited ISO/IEC 17025:2017 EMC test laboratory.

Experiences cover safety critical design according to IEC 61508, ISO 13849, EN 50128/9, and IEC 62304. Among safety critical design from SIL0 to SIL4. The Design Centers are in Italy close to Milan (Lomagna), and in Germany to Stuttgart (Ulm).



TEST STRATEGY

Test strategy drives products quality and total cost performance at every step of the life cycle.

We deeply analyse the products at board level or integrated one starting from performance specification, simulating the best test and controls strategy for process and products. Test coverage defined at design level with specific test tools like Test Way and other specific software package.

Test equipment design (In Circuit Test, Boundary scan, Functional Circuit Test, Dielectric tools, Burn-in systems) are efficient and useful test equipment, they are the key to keep under control production and supporting after sales assistance services.

High performance products need professional designers, flexible and reliable platforms, compliance with the major industry standards; we offer long life maintenance service through best advanced and remote workstation interactive operation, to install and upgrade the customers applications. Our Test experts will support the customers to define the best strategy, specification, implementation and maintenance of the tooling, more than two thousands projects have been deployed on worldwide base.

LABORATORY

Internal Test Laboratory:

- EMC tests accredited according to ISO/IEC 17025:2017 (immunity, emission, radiated and conducted) with semi anechoic chamber, generators, amplifiers, antennas, receivers, CDNS.
- Safety tests (temperature measurements, fault tests, insulation) with thermocouples, data logger, IR camera, insulation testers.
- Vibration tests (random, sinusoidal, shock) with shaker, controller, amplifier and accelerometers.
- Climatic tests (cold, dry heat, damp heat, humidity test, temperature changes) with climatic chambers, walk-in thermostatic chamber, ovens, etc.

