



Kitron

Your ambition. Our passion.

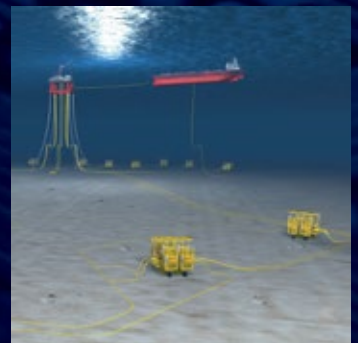
Offshore/Marine sector



Development
NPI
Sourcing
Manufacturing
Logistics
After Sales Services



Norway
Sweden
Lithuania
Germany
USA
China



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Kitron is a leading international provider of Electronics Manufacturing Services (EMS). We operate globally from modern facilities in Norway, Sweden, Germany, Lithuania, China and the USA. Half a century of experience and broad industry expertise let us add insight and efficiency at every stage in the product lifecycle – so you can bring innovations to market faster and at lower total cost.

OFFSHORE/MARINE PRODUCT MANUFACTURING, TESTING & MAINTENANCE

The Offshore/Marine sector is one of Kitron's areas of particular EMS competence. Quality demands are extremely high for electronic assemblies in this area, with special coating processes and traceability often required. Production runs are often small and complex. The proper development and industrialization phases are critical for success. Kitron offers all the support you need. We have the expertise, technology and flexibility to handle all the phases of such projects.

Kitron divides the Offshore/Marine sector into three main areas:

- Subsea production systems
- Oil and gas exploration equipment
- Navigation, positioning, automation and control systems for marine sector.

We work closely with customers – from concept, design and engineering work, with materials selection and sourcing, to testing, production, logistics and support. Each customer has a single point of contact and direct access to a cross-functional team of specialists who put Kitron's vast know-how and resources at their disposal. The focus is on ensuring that quality is right while optimizing costs and bringing your product to market in the shortest time possible.



SERVICES ACROSS THE ENTIRE VALUE CHAIN

Development

In the development phase Kitron focuses on project management, industrialization, testing and new product introduction, to optimize cost and to reduce time to market. Our project managers are skilled at taking projects all the way from concept to industrialization and serial production.

Sourcing

Our global sourcing specialists have a deep understanding of lifecycle cost analysis and regulatory requirements. In choosing suppliers and components, we know how to take advantage of the opportunities that the global market offers. Kitron thus helps customers gain competitive advantage through lower material costs, better quality and a seamless supply chain.

New Product Introduction (NPI)

Kitron's NPI Centre offers dedicated staff and facilities for the fast and cost-effective production of high-quality prototypes and for expert evaluations of new products. Reviews of manufacturing requirements, testability and component suitability are based on industry standards and best practices as well as national and international requirements. We identify ways to improve products, cut lead time and reduce manufacturing costs – before production begins.

Manufacturing / Assembly

We have long experience manufacturing, assembling and testing electronics products, with full PCBA and Box-build/HLA capabilities. Kitron's modern facilities in diverse locations worldwide have automated assembly lines for PCBs, electronics, microelectronics and micromechanics, also handling system integration, repairs and upgrades, product marking, traceability and packing.

Logistics

Kitron's logistics team ensures safe and effective delivery of products to our customers or to the end customers.

Subsea Electronics & Seismic Equipment

Kitron makes high-quality electronic equipment for the subsea electronic module (SEM) that is part of the subsea control module (SCM) used in subsea operations worldwide. We also produce state-of-the-art seismic equipment that is fully tested – electronically, visually and functionally.

REFERENCE CUSTOMERS & PROJECTS

ABB, Hernis and FMC Technologies are among the international customers that have benefitted from Kitron's Offshore/Marine EMS expertise and can provide references.

Work for these and other leading companies involves the manufacturing, testing, maintenance and repairs of, for example:

- subsea control systems
- wireless sensors
- surveillance systems
- seismic sensors and equipment

OPERATIONAL EXCELLENCE, CONTINUOUS IMPROVEMENT, SUSTAINABLE DEVELOPMENT

Quality standards

- ISO 9001:2008
- ISO 14001:2004
- EN/AS 9100:2009
- IRIS rev.2
- ISO 13485:2003
- 21-CFR-820-QSR
- AQAP 2120

General workmanship standards

- IPC-A-610 Acceptability of Electronic Assemblies
- IPC/WHMA-A-620 Requirements and Acceptance for Cable and Wire Harness Assemblies
- IPC J-STD-001 Requirements for Soldered Electrical and Electronic Assemblies
- IPC-7711/7721 Rework, Modification and Repair of Electronic Assemblies
- IPC-A-600 Acceptability of Printed Boards

Kitron offers IPC Class 2 and Class 3 assemblies. Customer-specific requirements are met through training and certifications.

5S, Lean, Six Sigma, PFMEA and Kaizen compliance.

Controls to safeguard customer intellectual property.

ERP for rapid response, inventory management and capacity planning, with strong reliability and symmetry so customers benefit in relation to schedule flexibility, mix, volume, complexity, etc.

Flexibility: learned in 50 years of handling fluctuating manufacturing volumes for customers.



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