



**Kitron**

Your ambition. Our passion.

# Energy/Telecoms sector



Development  
NPI  
Sourcing  
Manufacturing  
Logistics  
After Sales Services



Norway  
Sweden  
Lithuania  
Germany  
USA  
China



[www.kitron.com](http://www.kitron.com)

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.

## ENERGY/TELECOMS PRODUCT MANUFACTURING, TESTING & MAINTENANCE

Kitron has long supported energy and telecoms businesses in the development and diffusion of new technology. Electronics play a key role in progress in this sector, as well as in meeting stricter greenhouse-gas limits. Decades of experience in the field, a full range of services and our local and regional presence all make Kitron an ideal EMS partner for the Energy/Telecoms sector.

Within the Energy/Telecoms sector Kitron offers clients particular expertise in manufacturing products such as:

- Data-transmission and storage systems
- Radio frequency (RF) systems
- Data-transmission and storage devices
- Efficient long-distance transmission of electricity
- Metering and smart solutions for energy optimization
- Remote measurement of electrical metering

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 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

We have extensive 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. We have the clean rooms, equipment and know-how for the naked chip solutions that energy and telecoms products often require to achieve low energy-loss/high-frequency performance.

## Logistics

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

## REFERENCE CUSTOMERS & PROJECTS

Transmode, Kapsch, Net Insight, ABB, Aidon, Norphonon and Sensus are among the international customers that have benefitted from Kitron's Energy/Telecoms expertise and can provide references.

Our work for these and other leading companies involves:

- high-speed fiber optics backbone network systems
- automatic toll road systems
- industrial intercom solutions
- high-voltage transmission and control units
- electricity and water meters for smart energy applications
- and other project types

## 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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