

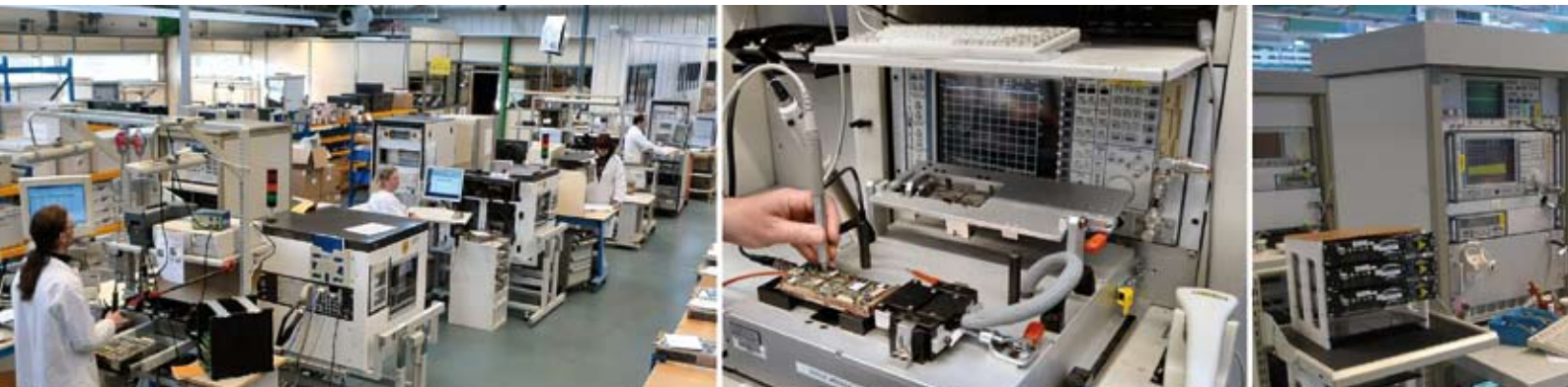


## *Your partner for Electronics solutions*

### **Expertise :**

- ✓ Radio-Frequency Communications
- ✓ Embedded Applications
- ✓ HW & SW design
- ✓ Systems Integration
- ✓ Sourcing
- ✓ Repair & Logistic





**Human resources with high technical competence,  
managing a powerful and flexible industrial tool.**

European subsidiary of Lagassé Group,  
**Lagassé Communications & Industries (LC & I) is the partner of your Electronic Solutions**

Specialized in Radiofrequency transmissions and embedded applications, its versatility (design, industrialization, integration, after-sales service) provides comprehensive solutions from the development of specifications to on-site maintenance.

Both sites of LC&I, Douamenez (France) and Berlin (Germany) provide the same level of services for large companies, SME or SOHO.

**LC&I intended to diversified markets:**

Telecommunications – Transportation (Rail – Aerospace)  
Civil Safety & Defence - Medical.

**Our references:**

EADS, THALES, AASTRA, RATP,  
ADVANTEN, E-BLINK, KYEMO.

**LC&I's specialty:  
A comprehensive and complete offer**

- ✓ Development of customized solutions in medium and small series
- ✓ Adaptation of generic solutions
- ✓ Contribution following customer strategy (outsourcing, co-development or partnership)
- ✓ Turnkey solutions, since the study to commissioning
- ✓ Low cost solutions

**The spirit of innovation**

- ✓ Continuous improvement of the organization and its services to deliver superior customer satisfaction
- ✓ Acquisition of new technologies adapted to customer projects
- ✓ Optimization of competitiveness and technological performance of the client's products
- ✓ Know-how ensuring quality and reliability for service-oriented customers

**Achievements**

- ✓ PMR Secure Radiocommunication
- ✓ Wireless systems, very low frequency up to 6 GHz
- ✓ Base station for data / voice / video communication; Multiple integration of systems (radio-communication, telecom...)
- ✓ Power / Charger
- ✓ Active RFID
- ✓ Indoor localization
- ✓ Energy metering (electric meter)
- ✓ Wireless relay for GSM base station

**HW & SW design - Integration of Systems**



## The EMS answer for development of wireless and radio applications

### R&D

- ✓ Design of electronic products and systems
- ✓ Electronic and mechanical CAD
- ✓ Design of products for harsh environments (ATEX certification, ...)
- ✓ Feasibility studies - Value Analysis
- ✓ Research for technical solutions (hardware and software studies)
- ✓ Functional simulation

### Engineering

- ✓ Introduction of New Products and co-development
- ✓ Definition and optimization of manufacturing processes
- ✓ Validation of standards requirements (CE, UL, CSA)
- ✓ Qualification of products (endurance / climatic / vibration / aging)
- ✓ Assessment of manufacturability
- ✓ Study and creation of operational test systems
- ✓ Sourcing and process cost reduction
- ✓ Redesign to cost
- ✓ Reverse engineering

### Supply chain

- ✓ Procurement and obsolete components management
- ✓ Assembling and testing complex electronic systems
- ✓ Integration of sensitive communications solutions (secured - encrypted).
- ✓ Burn-in - waterproof and temperature testing
- ✓ Pull demand (KANBAN)
- ✓ Management of customers configurations to Day +1 and timeliness of delivery
- ✓ Traceability management

### Maintenance and related logistic

- ✓ Products repair at the component or modular level
- ✓ Pcb and complex electronic systems repair
- ✓ Software loading and/or upgrade
- ✓ Failure analysis on site and / or upgrade
- ✓ Dedicated tools for logistics and fleet management

### Technologies implementation

GSM, GSM-R, UMTS, TETRA, TETRAPOL, BLUETOOTH, WIFI, WIMAX, ZIGBEE, RFID, Communication protocols: RNIS, RTC, GPRS

### Continuous security improvement at all levels



- ✓ To ensure the protection of intellectual property
- ✓ To optimize infrastructure for the management of sensitive products
- ✓ To respect ROHS - REACH guidelines



Baie de Douarnenez

## Sourcing - Repair & Logistics

# Lagassé Communications & Industries

European subsidiary of Lagassé Group.



International locations of Lagassé Group includes companies involved in design, manufacturing and after sales services.

## Products & Technologies



RFID protective solutions for goods and people.



A specialist in scalable VoIP, secure SIP software and technologies and fixed/mobile convergence applications.

## Industrials Services



Your partner for electronic solutions, specialised in Radio Frequency transmissions an embedded applications.



A technology support group providing integration services for high added-value technical products

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