

RAFI

E²MS SERVICES FOR DEFENSE APPLICATIONS

Comprehensive services for the development and manufacture of electronic and mechanical components, assemblies, and systems for extreme operating conditions



rafi-group.com

RAFI – YOUR RELIABLE PARTNER FOR DEMANDING DEFENSE APPLICATIONS

For over 125 years, RAFI has embodied innovation, precision, and quality. Our operating elements are in use around the world – in industries ranging from medical technology and aviation to defense. This versatility reflects our core expertise – delivering robust, long-lasting, and smart solutions for every application.

YOUR ADVANTAGES AT A GLANCE:

- **In-house development & production in Germany and Europe:**
Control over quality, supply chains, and technical development
- **Robustness & quality:**
Resistance to vibration, shock, moisture, dust, and extreme temperatures
- **Proven supply chains:**
Consistently reliable delivery and partnership-driven collaboration with defense-sector clients
- **Long-term availability:**
Availability of spare parts is ensured for decades
- **Reliability:**
Our components meet industry-specific requirements and quality standards
- **Broad portfolio of E²MS services:**
From built-to-print and chip-on-board to design for assembly, design for automation, and design to specification, as well as external analysis and repair services.

APPLICATIONS IN THE DEFENSE SECTOR

Vehicles & mobile platforms:

Key switches for system control in cockpits, emergency stop buttons in control consoles, and operating elements for communication systems.

Ships & submarines:

Waterproof operating elements, corrosion-protected key switches in control consoles.

Communication systems:

Micro-switches for radio control, operating elements in control panels.

Weapon systems & fire control systems:

Safety-relevant switches, labeled operating elements.

Avionics:

Micro-switches on PCB for reset, calibration, and safety functions.



PORTFOLIO

As an E²MS (Electronic Engineering and Manufacturing Services) service provider, RAFI Eltec GmbH in Überlingen offers a comprehensive range of specific services along the entire life cycle of the product.

ELECTRONIC MANUFACTURING SERVICES (EMS)

This is the core business and includes the actual production of the electronics:

- SMD assembly
- THT assembly
- Device assembly & module production
- Coating and potting
- Testing and quality assurance
- Electronic Engineering Services (EES)
- Hardware and software development
- Design-to-cost/design-to-manufacture/design-to-automation
- Printed circuit board design (layout)
- Prototyping: Rapid production of initial samples to test functionality.
- Life cycle management
- Material management
- Repair and warranty: Services over the entire product life cycle



Our exclusive analysis and repair department allows us to provide superior service even for complex third-party products. We rely on outstanding measurement and analysis technology that is deliberately decoupled from series production to ensure maximum precision, efficiency, and discretion, and to secure your competitive edge. This makes it possible for us to offer our services also for third-party products and provide you with optimum support.

TALK TO US ABOUT YOUR DEFENSE APPLICATION

Whether communication, control, or safety-relevant applications, RAFI offers customized electronics solutions for a wide range of requirements within the E²MS domain. Customers benefit from many years of experience in electronics manufacturing, comprehensive process expertise, and a high-performance portfolio along the entire value chain, from development to industrialization and series production. The focus is on precise, durable, and reliable electronic assemblies and systems.



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