

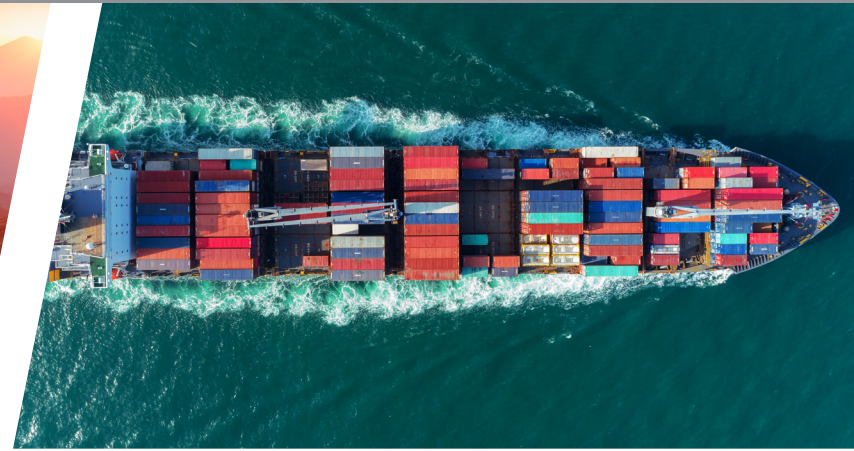


a.p. microelectronic
research · development · production

Quality Made in Germany

**Electronic Engineering and
Manufacturing Services**





Your Partner for EMS Services

a.p. microelectronic was founded in 1984 and has gained international acclaim and recognition for its customized solutions. The assemblies we develop are used in various segments of automotive, medical, and industrial technology.

Our customers include OEMs and system suppliers of automotive and industrial technology worldwide.

- System supplier for electronic and electro-mechanical assemblies
- Specialist departments with state-of-the-art design, production and testing facilities
- Supplier to the automotive industry and certified according to current standards



With us you have found the perfect partner for sophisticated EMS services

“We understand that modern EMS services are no longer limited to pure PCB assembly.”

Electronics Production

- SDM and THT Assembly
- All-in-one units including installation, low to high volumes
- Management of materials

Technology and Development

- Electronics development for hardware and software
- Prototype and test equipment design
- Implementation and supervision of design reviews and validation tests

Project Management

- Project organisation, coordination and monitoring
- Project structure plans
- Close cooperation with our customers

Cutting Edge EMS Services

Production Output

- SMD
- THT (wave soldering, selective soldering, hot bar soldering and manual soldering)
- Encapsulation and Coating
- Professional Device Assembly
- Testing and Evaluation Options (AOI, ICT, and EOL)
- Logistics – Management of Materials/ Supply Chain Management
- Traceability

Core Competencies

- Control, Power and Interface Electronics
- LED Applications
- Actuator and Motor Controls
- Sensors





“Our mission is to provide a zero defect strategy for your product, whether through optical or electronic testing”

Testing and Inspection Options

We have various testing and inspection devices at our disposal that optimise the production process of your assembly.

The safety and reliability of your product are our highest priority. A testing strategy is therefore drawn up in advance together with the customer.

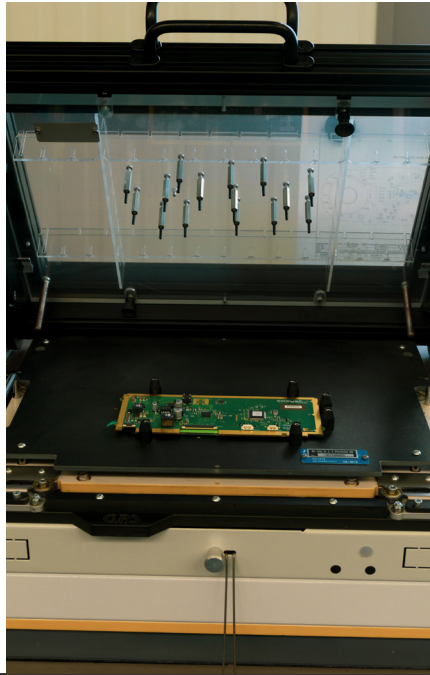
Testing Expertise

- AOI – Automated Optical Inspection
- ICT – In-Circuit Testing
- EOL – End of Line Testing

Naturally, as a supplier to the automotive industry, we are certified according to the current standards.

Certification

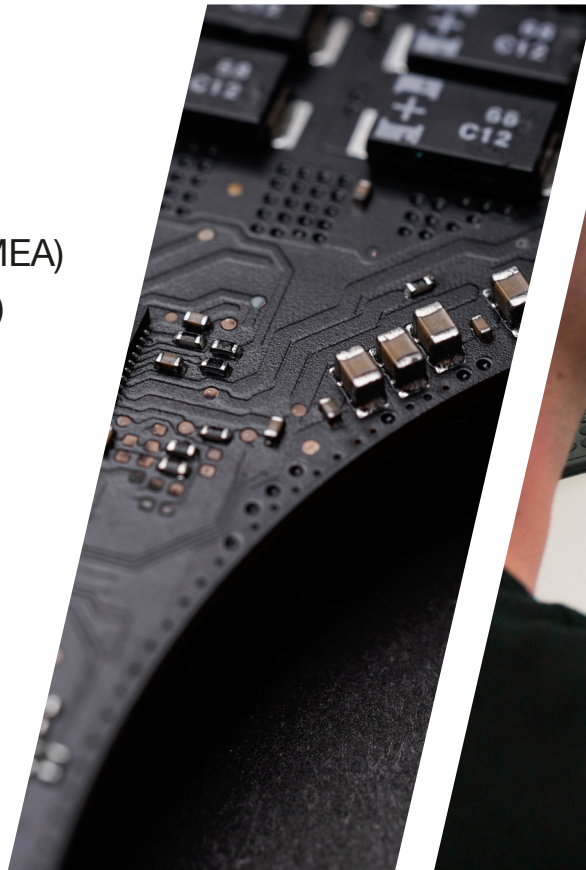
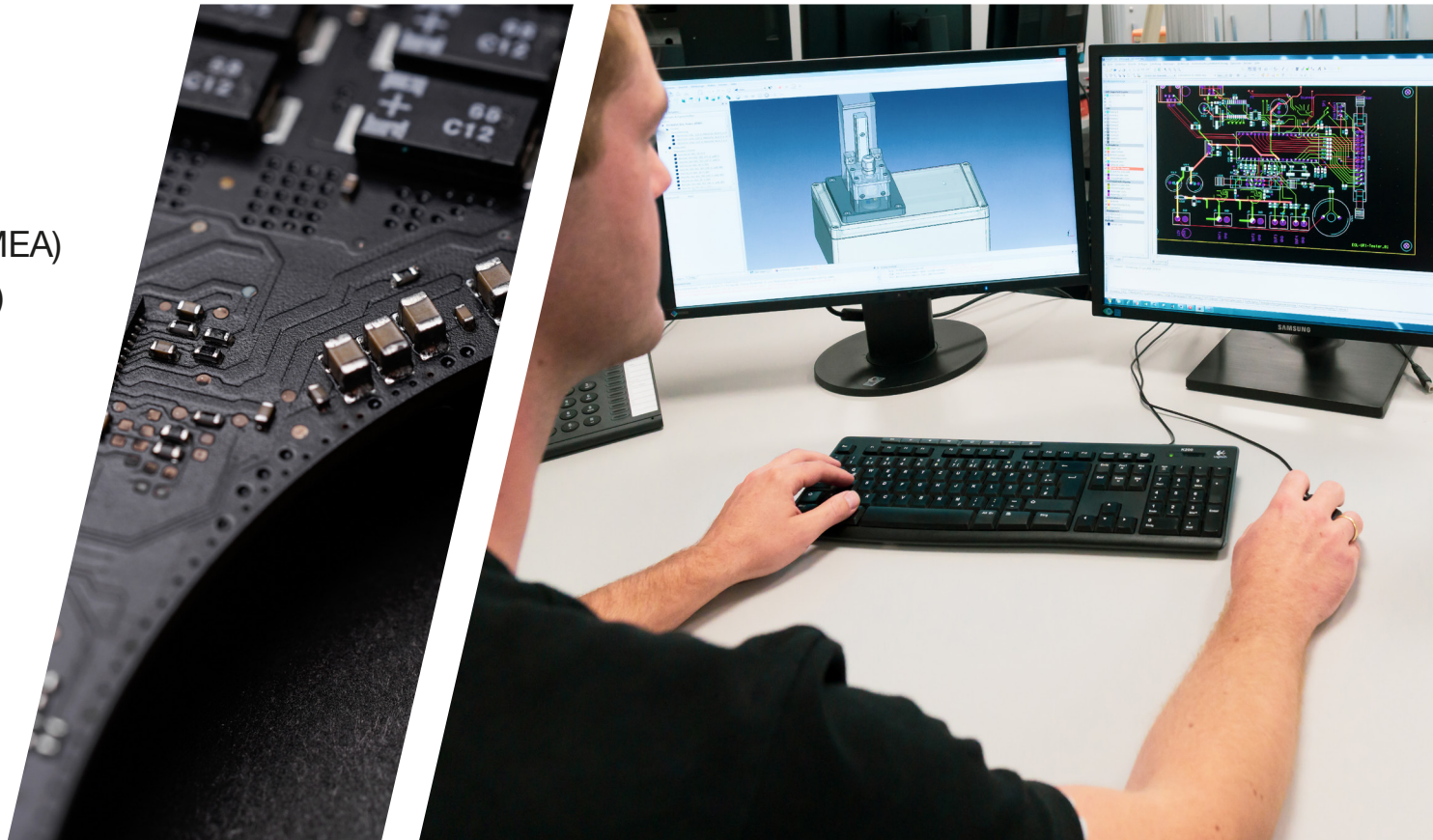
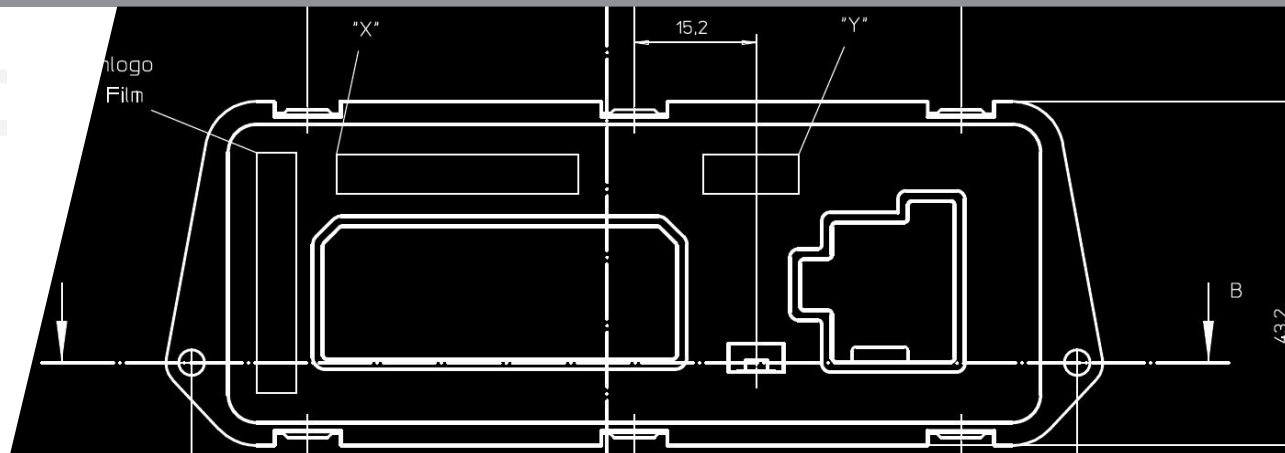
- IATF 16949
- Product Certification (ATEX, UL and more)

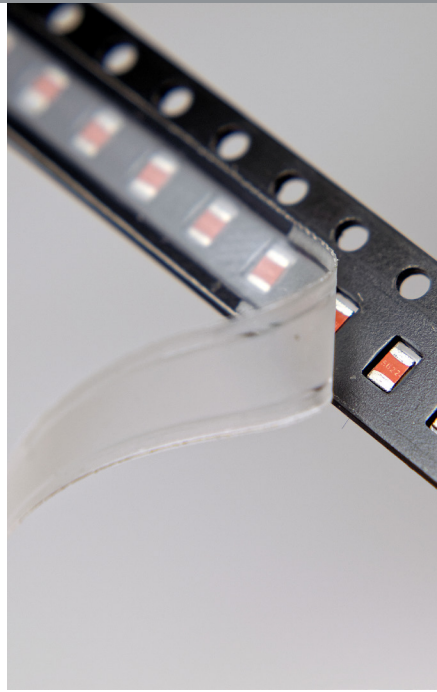
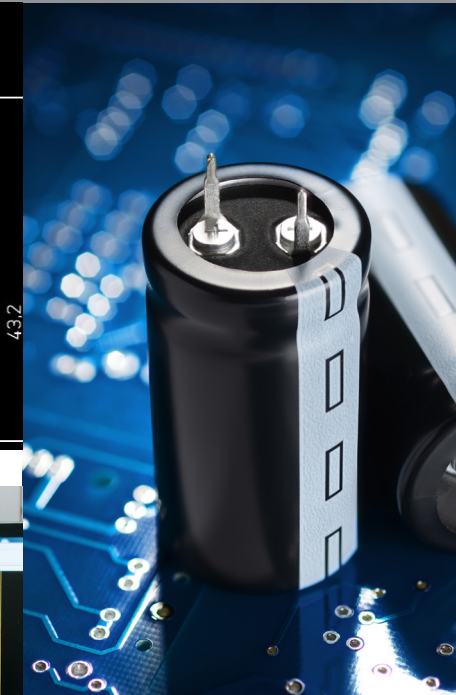


Expertise in Technology and Development

Expertise in Development

- Concept Design
- Preparation of Technical Specifications
- Circuit and Layout Design
- Software Design and Hardware Solutions
- Prototype Construction (sample)
- Design Validation
- Failure Mode and Effects Analysis (FMEA)
- Initial Sample Inspection Report (ISIR)
- Development of Testing Devices
- Design Suitable for Production

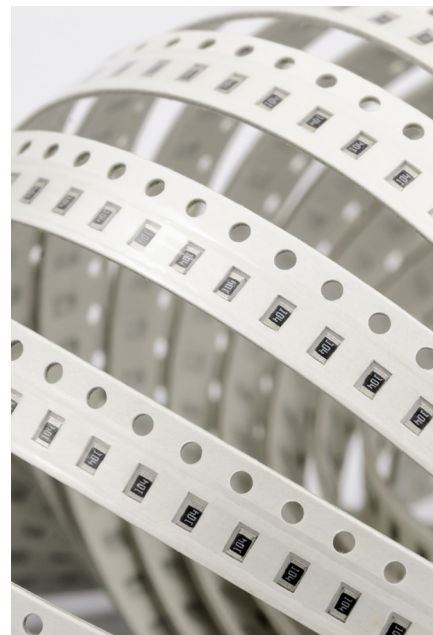
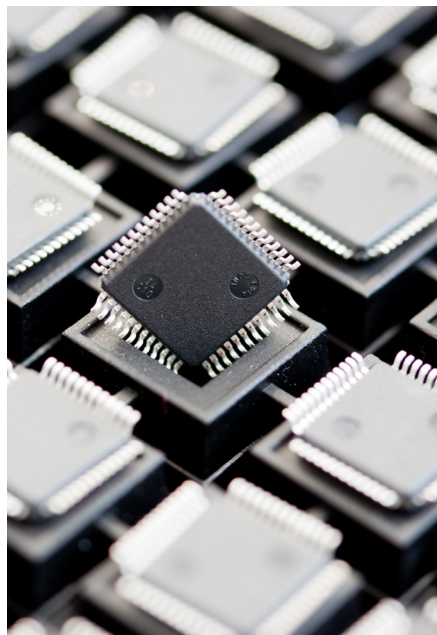
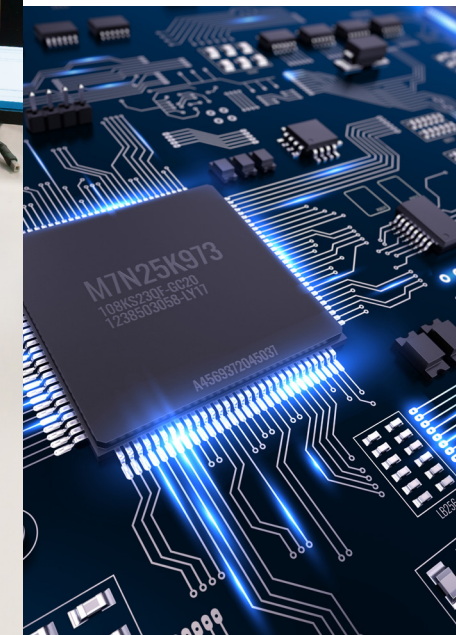




“Our development team implements your requirements in a targeted manner and assists you through all phases of development”

Expertise in Technology

- Control Technology
- Embedded Systems
- Ultrasonic, Magnetic, Temperature, and Liquid Sensors
- LED Lighting Systems
- Bus Systems, such as CAN and LIN
- Motor Controls, DC 12 V/24 V, Actuators
- Safety modules (ATEX, TÜV, UL)





Our team will assist you from concept development to series production and support you with competent expert advice.

Contact us:

a.p. microelectronic
research · development · production

a.p. microelectronic GmbH

Königstraße 414-416
32427 Minden, Germany

+49 (0) 571/4045-1

info@ap-micro.de

www.ap-micro.de

