A composite image showing a close-up of a microchip with glowing components on the left and a patient lying on a table inside a medical scanner on the right. A green box with white text is overlaid on the left side.

MICROSYSTEMS & OPTOELECTRONICS FOR MEDICAL DEVICES

COMPLEX MEDICAL SYSTEMS BECOME REALITY

In the area of medical technology AEMtec realizes customer-specific solutions for medical devices from the first concept through to series. AEMtec combines high-tech manufacturing with long-term experience in engineering. Product development does not mean merely creating a new product, the requirements for costs and high quality must be satisfied at the same time. A small design correction in advance is sufficient to avoid unnecessary follow-up costs. As such, diverse concept developments, exact specifications, feasibility and systematic risk analysis form the basis for safe results with high integrity and reliability. AEMtec is ISO 13485 certified.

SERVICES

- Specifications
- Development
- Prototyping
- Test Systems
- Qualification
- Industrialization
- All Volume Production

APPLICATIONS

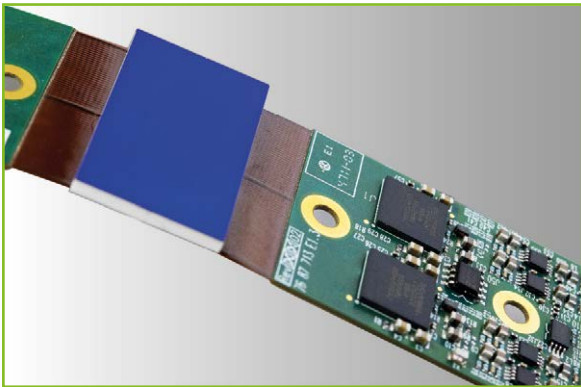
- Wearables
- Handhelds for Point of Care Diagnostics
- Imaging Systems
- Acoustic Systems
- Laboratory Diagnostic Equipment

BENEFITS

- Long-Term Experience
- Extensive Engineering Expertise
- Material Management
- Life Cycle Management
- Turn Key Solutions
- Time-to-Market
- Lower Costs



MINIATURIZED ELECTRONICS FOR IMPROVED LIFE QUALITY



SERVICES

Selection and implementation of assembly and packaging technologies • Optical simulation • Proof of concept • Layout and design
Traceability on component level

TECHNOLOGY

Advanced packaging (COB and FC) • High precision placement
Active and passive alignment • Assembly of precision optics • Cleanroom production (down to ISO-5) • Burn-in

VOLUME SUPPLY

All common logistic models e.g. JIT, KANBAN, consignment stock
Complete supply chain management • Worldwide deliveries



SERVICES

System miniaturization • Component risk evaluation • Process validation (IQ/OQ/PQ) • Design for manufacturing DFM • Test equipment engineering • V-model based SW development

TECHNOLOGY

SMD and CoB assembly • Box build, 100% outgoing inspection (AOI, boundary scan, functional test) • Failure analysis and repair

VOLUME SUPPLY

Pre-Assembly and precision assembly • In-process control • Box Build
Functional test • Customized packaging • Customer orientated deliveries • Worldwide deliveries



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