

## About Kontron – Member of the S&T Group

Kontron is a global leader in IoT/Embedded Computing Technology (ECT). As a part of technology group S&T, Kontron, together with its sister company S&T Technologies, offers a combined portfolio of secure hardware, middleware and services for Internet of Things (IoT) and Industry 4.0 applications. With its standard products and tailor-made solutions based on highly reliable state-of-the-art embedded technologies, Kontron provides secure and innovative applications for a variety of industries. As a result, customers benefit from accelerated time-to-market, reduced total cost of ownership, product longevity and the best fully integrated applications overall.

For more information, please visit: [www.kontron.com](http://www.kontron.com)

## Global Headquarters

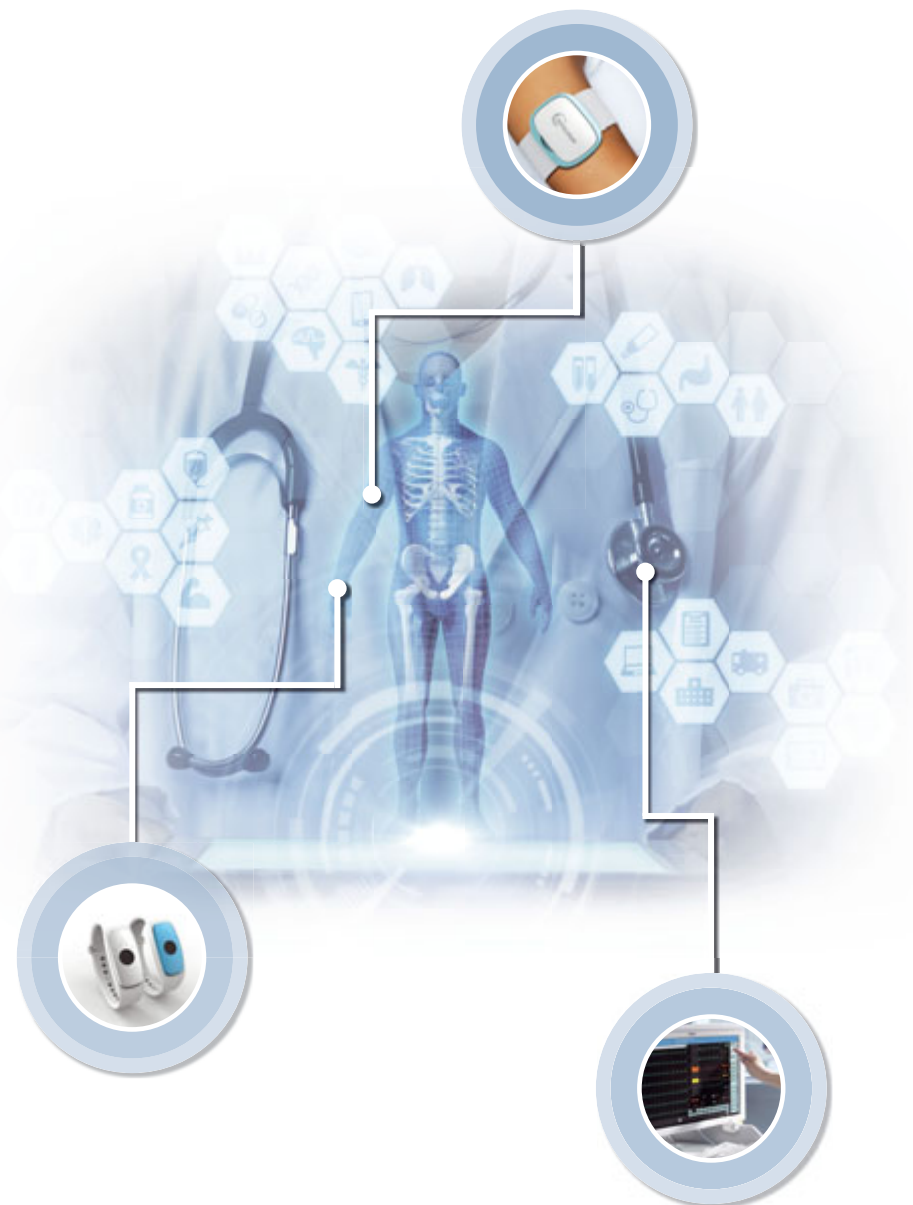
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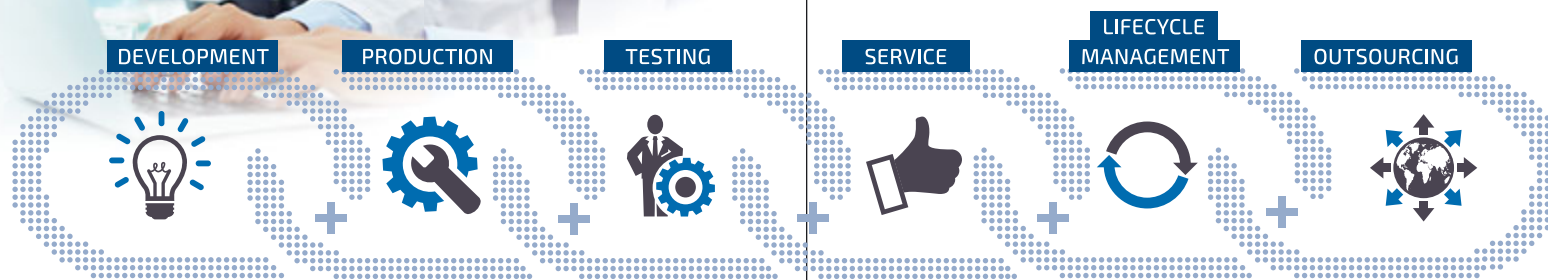
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# WEARABLES & MEDICAL DEVICES

From the Idea to the finished Product



# DEVELOPMENT AND PRODUCTION of your medical product



We are your ODM partner for development and production of complex, high-quality electronic wearables, assemblies, modules and systems for medical technology. Our solutions cover a wide spectrum of customer requirements and are used in medical laboratory and diagnostic devices, as well as wearables for therapy and body monitoring. With many years of experience in this field and the existing technology know-how, we provide a team of specialists and the appropriate processes to develop, together with you, your innovative medical product and solution.

We support you from the first idea across development and production thru the whole product life cycle. Even in the development phase, we serve our customers with prototypes and small batches that meet the requirements as far as possible and that comply with relevant regulations. The close integration of development and production ensures an extremely fast reaction time through direct feedback from the production and the results of the quality assurance. This in turn guarantees a reduced "Time-To-Market" along with highest quality levels.

## DEVELOPMENT

- ▶ Development processes based on V-model
- ▶ Requirement engineering and appropriate tracking
- ▶ Miniaturization
- ▶ Complete handling of design / construction / electronic design / software development (EN 60601 and IEC 62304)
- ▶ Life cycle management
- ▶ EMV Know-How and tests in own test lab
- ▶ Prototyping
- ▶ Industrialization / ramp-up
- ▶ Development and construction of test equipment

## PRODUCTION

- ▶ Certified according to ISO 13485
- ▶ Batch tracking on component level
- ▶ Process validation / test level validation (IQ, OQ, PQ)
- ▶ Development and Implementation of test concepts
- ▶ Series burn-in
- ▶ Availability of replacement parts > 10 years
- ▶ Long term storage of components
- ▶ Finishing, encapsulation, socketing, sterilization

## HOUSING DESIGN, MECHANIC CONSTRUCTION

- ▶ 3D-construction tools
- ▶ Plastic injection molding, aluminum die-cast, sheet metal technologies, aluminum profiles
- ▶ Adhesive technologies, surface treatment / coating
- ▶ Product packaging

## PRODUCT DEVELOPMENT FOR PCBA AND SYSTEMS

- ▶ Generate product specifications
- ▶ Prepare and generate feasibility studies
- ▶ Develop hardware, software and firmware

## SERVICES

- ▶ BOM-Analysis, Life Cycle Management / EOL, long term storage
- ▶ Design to cost, Supply Chain
- ▶ Repair service

## TECHNOLOGIES

- ▶ Microcontroller M0/M4, Arm® processors from NXP, STM and others
- ▶ Digital signal processing, raw data, signal conditioning, image processing
- ▶ Communication technologies like NFC, RFID, Bluetooth, WiFi and other IoT interfaces
- ▶ Energy efficiency, low energy/low power, battery/battery pack, wireless charging Qi
- ▶ Sensor integration, opto- and camera modules, motion, temperature, transducers

## PRODUCTION

- ▶ NPI, industrialization
- ▶ Fast Prototyping for PCBA and mechanic
- ▶ High speed SMD-assembly, Flex- and Rigid Flex-assembly
- ▶ Final assembly and system production, LEAN-production
- ▶ Test engineering and integrated quality management