

Sintecs Product Engineering delivers quality solutions in product development and high speed electronics design projects. We operate in industrial, professional and consumer markets. We can provide custom-made complete or partial product design, product updates or redesign. This enables us to lower costs, add/replace components, functions or performance. We provide flexibility, shorter time-to-market and sustained quality. We offer a complete range of solutions and services, we are reliable and work in close cooperation with our customers.

Reduce risk and speed up time-to-market using building blocks

Sintecs Product Engineering invests in its own Product Development and customer Research and Development programs. We carry out research of new technologies and design our own building blocks and modules. Our goal is to reduce risk and accelerate time-to-market for our customers. We have many years of experience in product development (consumer products, M2M / telecom systems) and electronics.

The development of our product solutions is based upon building blocks. Starting from a solid base of building blocks we create high quality solutions. This approach enables Sintecs to offer tailored high-tech solutions for off-the-shelf conditions. The use of building blocks results in flexibility, shorter time-to-market and reduction of costs and risks.

First time right

Sintecs Product Engineering is driven by quality; we work according to a structured product development process and have skilled project managers. The development process is based upon a first-time-right strategy and is a phased approach to development, from customer concept requirements to a complete approved product.

High quality by close cooperation

Having our own proto-shop and close collaboration with production partners enables good interaction between design and production which ensures product quality (design for manufacturing, improving produce- and test-ability). We take full responsibility for our products. Due to the fact that our prototypes are already manufactured according to the production standards a very rapid ramp-up for production series can be achieved.

We meet (inter)national standards

Sintecs Product Engineering designs its products according to national and international standards, this includes aspects like temperature, humidity, pressure, effects of water and salt, pollutants and contaminants, mechanical stresses and vibration, electrical safety, electromagnetic compatibility and interference (EMC/EMI). Application environments vary from telecommunication, medical and semiconductors to logistics.

To ensure the compliance of our products with the standards and environmental regulations, Sintecs invests in expertise and a well-equipped lab. For certification we cooperate with our customers, laboratories and test-houses.

We have experience with:

- Product development (Bluetooth accessories, DECT products, Base stations for telecommunication companies, home and building control solutions)
- Multi-disciplinary project management
- Digital processor boards and systems
- Single processor boards to highly complex (high speed)
- Multi functional systems with multiple data and numerous interface options
- Embedded software
- Interfaces like Serial, IEEE1394, CAN, USB, Rapid-IO and (Gigabit) Ethernet
- Wireless solutions with GSM/GPRS, GPS, DECT, Bluetooth, WLAN
- Programmable logic and processors (DSP, FPGA, CPLD, ARM)
- Audio and acoustics
- Power concepts: isolated or non-isolated, AC/DC, DC/DC and DC/AC converters, batteries and several switching topologies.
- Simulation and modelling
- Analogue and mixed signal (Analogue/digital or digital/analogue converter)
- Signal integrity, cross-talk and PCB layout with Mentor Graphics and Cadence design flow