

IMP-Telecommunications

Embedded Systems Design House



IMP-Telecommunications is a prominent Serbian embedded systems design house. It was established in 1997 as a spin-off company of the Michael Pupin Institute (IMP), the leading ICT research and development center in Southeast Europe. The company of 42 employees is following legacy of its predecessor - IMP's Telecommunications Lab, well-known for its achievements in customer specific development and application-oriented research.

IMP-Telecommunications is oriented towards international market, offering cost-efficient and rapid development of customized hardware, firmware and devices. Experienced and vibrant embedded systems development team of ours utilizes latest technologies, complex hardware/software concepts, and field proven know-how to produce prototypes based on customer's idea. We are successfully partnering with product manufacturers and vendors, enabling them to develop products that exceed expectations.

Our company, as an Eastern European R&D offshore destination, can provide very high quality/cost ratio, among the best in the industry. In business terms we are offering contract R&D, consulting, licensing/selling of proprietary IP, development of conceptual designs and evaluation modules, as well as Original Design Manufacturer (ODM) service.



Most of our hardware & firmware engineering designs are done in the house, exploiting unique pool of expertise. In addition, availability of Institute's highly-qualified scientific personnel makes us fully capable to take even the most demanding R&D projects. As a founding member of "embedded.rs" industry cluster, we take active part in Serbian embedded industry's incentives. Through cooperation with local development companies, manufacturing and assembly plants, as well as leading national laboratories and research institutes, our company is capable of delivering high-quality product prototypes and technology demonstration models that fully conform to relevant industry standards.

Our engineers have outstanding expertise and experience in designing electronics ranging from simple microcontroller-based modules and analog circuits to complex systems comprising dozens of processors and boards. Such accumulated knowledge enables us to fully control development process in order to deliver high-quality solutions ready for manufacturing.

We understand complexity of embedded systems' design space and continuously strive to optimize our products regarding requirements, system architecture, hardware/software partitioning, components sourcing and manufacturing costs. In design process we take special care to ensure product reliability, EMC performance, ease of manufacture and production testing capabilities.



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We consider quality as a crucial element of product success. That's why we strictly apply quality assurance procedures through entire design and development process, from early discussions on requirements to final production testing. Such procedures ensure that each step of the process is well documented and traceable. Well-developed and transparent project management practices are tailored to enable rapid development. Our devotion to continuous upgrade of quality assurance system is demonstrated by recent successful IT Mark appraisal which incorporated CMMI Maturity Level 2 assessment.

IMP-Telecommunications' own state-of-the-art laboratory includes high-bandwidth oscilloscopes, spectrum analyzers, signal generators and analyzers, logic and network analyzers, as well as full range of PXI equipment for automated test and measurement. Latest additions to our capabilities are a pre-compliance EMC laboratory and a reference laboratory for fundamental electrical measurements.

Key technologies and know-how:

- Complete Embedded Development Cycle
- Real-Time Systems Design
- DSP Algorithms Development
- Embedded Operating Systems
- High-Speed Hardware Design
- FPGA Design
- Microwave/RF Design
- Multi-Layered PCB Design
- Flex and Rigid/Flex PCB Design
- Design for EMC
- Design for Manufacture and Test
- Mechanical Design
- Small-Scale Manufacturing Service

IMP-Telecommunications is a member of Texas Instrument's EMEA Design House Network of recognized and well-established companies.



IMP is a founder member of the Serbian ICT cluster ICT-NET.

