

Embedded Solutions



Embedded Product Designs and Services to Enable Your Products

Calian, Advanced Technologies offers embedded services, ranging from embedded OEM products to reference designs and logic cores, by drawing on more than 55 years of communication product design experience.

We have a deep portfolio of existing hardware, software and firmware designs, which also gives us a solid technical foundation for new product development. We base our work on proven designs and algorithms and evolve them to meet our customers' requirements, minimizing implementation risk and reducing time to market.

Our experience in developing unique products has allowed us to refine our ability to design to meet strict NRE and recurring cost targets. We know that meeting these targets, alongside delivering a quality product in a timely manner, is key to winning your business.

Calian is a Xilinx Alliance Partner, and excels at delivering RF based FPGA solutions

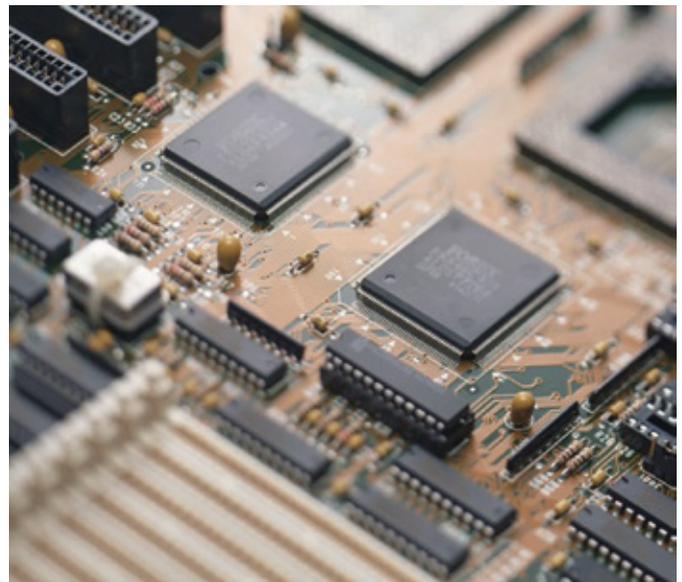
When developing new embedded solutions, a dedicated team of engineers is responsible for the project from initial requirements definition through to validation and customer acceptance.

Our team follows a structured and methodical design process consisting of analyzing the requirements, generating and validating the product architecture, implementing the hardware, firmware and software designs, and defining and executing a suitable test/validation program. We make extensive use of modeling and simulation tools to validate our algorithms and design concepts prior to implementation.

Our approach is based on designing with new technology and platforms. This ensures the life of the design, provides flexibility in accommodating future requirements and minimizes any obsolescence issues.

The Calian manufacturing facility, co-located with engineering and design staff, allows us to not only quickly and efficiently prototype new developments, but also handle all recurring manufacturing requirements.

Our highly trained manufacturing staff can rapidly process small- to medium-sized jobs, reducing your time to market. Additional services are available to address certification testing, safety, EMC/EMI and other specific requirements. We also provide warranty and long-term support once your product has been delivered.



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We are partners in your success, winning our business when you win yours, and we work with key OEM partners, distributors, value-added resellers, and equipment vendors to form strategic partnerships

Existing Designs and Logic Cores:

- ITU-T J.83 annex A/B/C modulation (DOCSIS)
- DVB-S/S2/S2X (and other DVB technology)
- DOCSIS 3.1 OFDM modulation and reception
- DOCSIS ATDMA and OFDMA burst reception and modulation
- IEEE 1588 designs and DOCSIS timing
- Digital spectrum analysis/monitoring
- RF/DSP filtering designs (ie. broadband RF upconverters)
- ASI processing
- COP3 IP receiver
- Designs and forward error correction implementations
- Multiple RF modulation format

Need help getting to market fast?

When you need a solution right away to satisfy an urgent market opportunity, Calian is there to apply its years of design experience, working with you to quickly develop a solution that will get you to market ahead of your competition.

Do you have internal resource constraints?

Too many projects on the go and you don't want to miss an opportunity? We will provide a dedicated team for your product development, ensuring a timely product delivery meeting all your requirements

Need help solving complex RF and communications issues?

Calian has designed numerous RF and communications solutions for many different applications. Where you encounter challenging requirements, we have the engineering skills to tackle them. We design products that are straightforward to build and test and have in-house manufacturing to deliver your recurring product volumes.

Contact Dan today.

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