



Your ASIC Design & Supply Partner

Feasibility | Design | Prototyping | Industrialization | Production

Customer-driven ASIC services



Full turnkey ASIC development & supply

Need a trustful partner to manage the entire ASIC design & supply chain?

Integrating electronics for the first time into your next-gen product? IC'Alps as prime contractor will support your custom circuit project from concept exploration to production:

- Feasibility
- Design
- Prototyping
- Industrialization
- Production

French CIR accreditation to enable the eligibility of the R&D operations carried out by IC'Alps.

Choose your entry point in the ASIC value chain



Custom IC Services

Experienced with integrated electronics but in need of support with your design? Our a-la-carte model is made for you.

- Application specification
- Analog design + Layout
- RTL Design
- UVM verification
- Synthesis
- Physical design + DfT
- Floor planning
- Timing verification
- Design verification
- System-level test
- Tape-out
- IC Test

Get access to our ASIC specialists

Complement your team's skills by outsourcing your ASIC design

01. IC'Alps is a team of 85+ experienced ASIC implementation specialists

02. We have the design expertise for your project

- Analog, Mixed-signal, or Digital ASIC development
- RISC-V or Arm-based circuit implementations
- Partnerships:
 - TSMC DCA
 - Arm Approved design partner
 - Xfab



03. With a focus on

- Ultra-low power (nanowatts)
- PMIC
- Multiphase DC/DC
- Sensor/MEMS AFE interfaces
- High voltage implementations
- Low noise data conversion
- Security features
- Digital IP design & integration
- High current
- Physical Unclonable Function (PUF)

04. Our projects combine in-house analog and digital blocks and some third party silicon-proven IPs
Standard cells & IO, interfaces, power management, PLL/DLL, memory, MCU...

- Better time to market
- Lower cost compared to full in-house design
- Reduced risk



Our markets and applications

Your idea into an exclusive, custom-made, and differentiated chip

From our design centers in France (Grenoble and Toulouse), we support multiple projects in the following demanding markets:



Healthcare

- Monitoring
- Ultrasound
- Drug administration
- Imaging
- Diagnostics
- Wearables



Industry

- Motion sensing
- Quality monitoring
- Surveillance
- Gaz sensing



IoT / IA

- Home automation
- Smart city
- Environment sensing
- Connected objects



Automotive

- Autonomous driving
- Gesture recognition
- ADAS
- Lighting
- Embedded intelligence
- Battery management



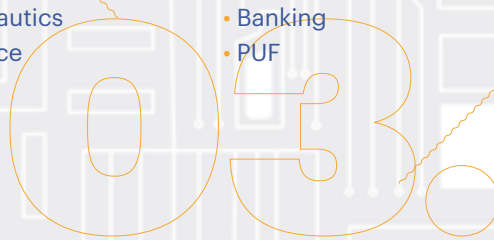
Mil/Aero

- Communication
- Satellite
- Aeronautics
- Defence



Identity and Security

- Biometry
- Secure boot
- Banking
- PUF



Quality Management

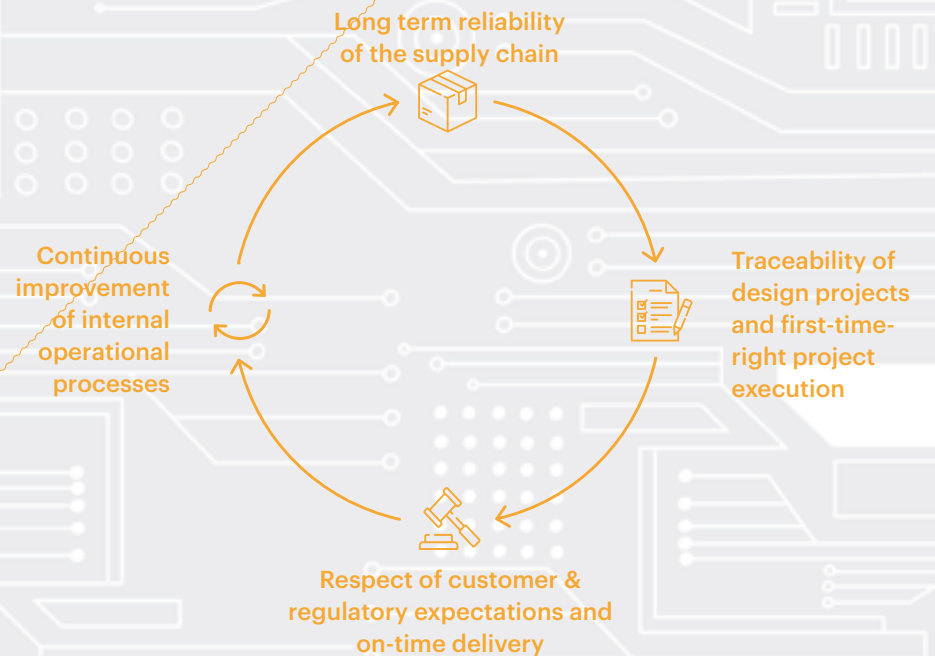
Minimize your technical and commercial risks

IC'Alps is an European independent ASIC design house with a **Quality Management System (QMS) certified according to EN 9100:2018, ISO 13485:2016 and ISO 9001:2015 standards. IC'Alps is also Common Criteria operational and IATF-16949-ready.**

Mastering design for quality, reliability, and functional safety, you can trust IC'Alps for on-time delivery of your bespoke ASIC, right the first time, regardless of your application.



What a certified QMS means for your ASIC



ASIC benefits

Make your product stand out with a custom Integrated Circuit

Custom Integrated Circuits offer flexibility for unique customization, product differentiation, and economic advantages.



Miniaturization

- Electronic components integration
- Smaller Printed Circuit Board
- Reduced product weight and size



Protection

- Full system integration
- Intellectual property and know-how protection



Better Autonomy

- Less active external components
- Better power management control
- Lower power consumption



Enhanced Features

- New functionalities
- Optimization of performances
- Specific regulatory compliance



Economic Advantage

- Reduced BoM
- Lower price per unit
- Optimized supply chain



Customer Full Ownership

- Protection of your innovation
- Dedicated Supply Chain
- ASIC/SoC rights & ownership

Your partner

From concept exploration to production



In-house ASIC implementation expertise to turn any application requirement into a custom chip

Active support from the application/system-level with our dedicated team, starting early in the process



Flexible cooperation models to complement the expertise of our customer's teams



Global supply chain for ASIC prototyping, industrialization and production



Foundry-independency for flexibility. Chosen technology is tailored to economical constraints, volumes, and technical specificities



ISO 9001:2015, ISO 13485:2016, EN 9100:2018 certified, IATF-16949-ready

Common Criteria operational

DO254, DAL-A/E, ISO26262, ASIL-A/D, AECQ100 when required

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IC'Alps is your one-stop shop ASIC partner

From our two design centers, we design and supply Application Specific Integrated Circuits (ASIC) exclusive and custom-made for our customers in the medical, automotive, industrial, consumer, mil/aero, security and IoT/IA markets.

Our services portfolio is large and flexible from ASIC feasibility to ASIC mass production to fit your industrial process requirements. At the end of the project, the circuit is fully-owned by the customer.

We have experts for specification, system architecture, application design, physical implementation, project management, IC test, system-level test and supply management. For each ASIC project, our team of specialists will complement your team's capabilities. We supply cost-effective Integrated Circuits in time and matching your specifications.

Our Quality Management system is ISO 9001:2015, ISO 13485:2016, EN 9100:2018 certified, Common Criteria operational and IATF-16949-ready.

Our goal

To help you unlock the potential of your product, enhance its performance, increase your margins thanks to Application Specific Integrated Circuit (ASIC).

What would be your ASIC need?

IC'Alps Headquarters
33 boulevard des Alpes
38240 Meylan, FRANCE
+33 (0)480 42 13 40



sales@icalps.com
www.icalps.com