



Your ASIC / SoC Design & Supply Partner

Feasibility | Design | Prototyping | Industrialization | Production

Customer-driven IP & ASIC Services

A perfect match
to complement your team



Full turnkey ASIC / SoC development & supply

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

Integrating electronics into your next-gen product? Cloning an obsolete device? Migrating an FPGA to ASIC? Reducing system BoM? ...

IC'Alps as prime contractor will support your custom circuit project from concept exploration to production including supply chain efficient management:

- Feasibility
- Design
- Prototyping
- Industrialization
- System-level validation
- Production

Our **Application team** can assist you in bridging the gap between your system requirements and the ASIC.



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 + DfT insertion
- Floor planning + Physical design
- Timing & physical sign-off verification
- Mixed-signal verification
- System-level test
- IC Validation on silicon
- in-FPGA prototyping



Custom IP Services

Need a specific block in your circuit?

- Adaptation of an existing block
- Performance improvement
- Technology migration
- Among others...

Get access to our ASIC specialists

Complement your team's skills by
outsourcing your ASIC design



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

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**IC'Alps is a team of 100+ experienced
ASIC implementation specialists**

**We have the design expertise for your
project:**

- Analog, Mixed-signal, or Digital ASIC development
- RISC-V or Arm-based circuit implementations
- Trusted partner referenced by:
 - ams OSRAM Preferred Partner
 - GlobalFoundries® GlobalSolutions™
 - DB Hitek design partner
 - Intel Foundry Accelerator Design Services Alliance (DSA) and Value Chain Alliance (VCA)
 - TSMC Design Center Alliance (DCA)
 - X-FAB X-Chain

With a focus on

- Ultra-low power (nanowatts)
- Power management
- Multiphase DC/DC
- Sensor/MEMS AFE interfaces
- High voltage implementations
- Low noise data conversion
- Security features
- Digital IP design & integration
- High current
- Security functions (TRNG, PUF)

**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

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



Industry 4.0

- 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
- Defense



Identity and Security

- Biometry
- Secure boot
- Banking
- TRNG, PUF
- Post Quantum Crypto (PQC)

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Quality Management

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

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.

Minimize your technical and commercial risks

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What a certified QMS means for your ASIC

Long term reliability of the supply chain



Traceability of design projects and first-time-right project execution



Respect of customer & regulatory expectations and on-time delivery

Continuous improvement of internal operational processes



COMMON CRITERIA
CERTIFIED



ASIC / SoC 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



Better Autonomy

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



Economic Advantage

- Reduced Bill of Materials (BoM)
- Lower price per unit
- Optimized supply chain



Protection

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



Enhanced Features

- New functionalities
- Optimization of performances
- Specific regulatory compliance



Customer Full Ownership

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

Your trusted partner

From concept exploration
to production

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In-house ASIC implementation expertise to turn any application requirement into a custom chip or to design specific IP blocks

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

Common Criteria
certified for Grenoble
site

IATF-16949 (Compliant)

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

IC'Alps is your one-stop shop ASIC partner

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

Our services portfolio is extensive and flexible. As your one-stop-shop partner from ASIC feasibility to ASIC mass production, we thrive to meet your requirements. At the end, you fully-own the circuit.

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

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

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 / SoC need?

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