

Dream Chip Technologies

Innovation in every Chip.

- TURNKEY SOLUTIONS
- SoC DESIGN
- VISION IP
- MINIATURE CAMERAS
- EMBEDDED SYSTEMS

WHO WE ARE

Smart Silicon. Sophisticated Systems. Scalable Solutions.

We are passionate about pushing the boundaries of what's possible. Our team specializes in the development and design of SoCs, chiplets, FPGAs, embedded software, and complex systems. Deep internal expertise spans every aspect of custom SoC design: From initial concept and architectural definition through tape-out and post-silicon bring-up.

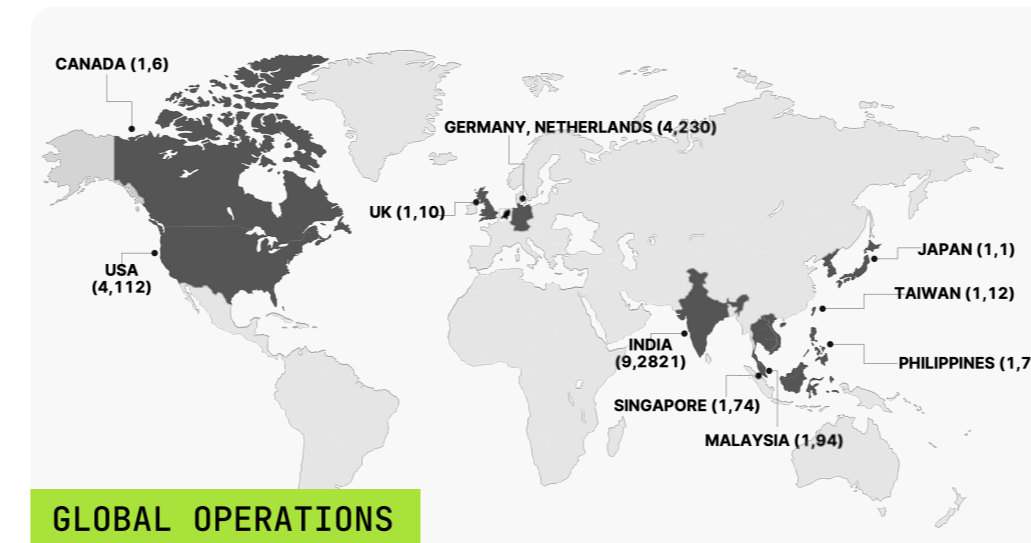
Our home base is high-end automotive and latest HPC, and with our world-class vision know-how, we are your natural partner for anything around high-end automotive FuSa certified 28bit dynamic range image processing, miniature HDR capable camera products (Atom Camera) and custom vision SoCs. Every project is an opportunity to deliver creative, superior solutions that exceed expectations.

A TESSOLVE COMPANY

Strong Partners

The partnership with Tessolve strengthens our ability to deliver end-to-end semiconductor and embedded solutions globally – from architecture to mass production.

Combining our expertise in digital infrastructure, smart mobility and physical AI enables us to tackle complex turnkey projects from silicon to systems – no complexity limits.



CORE COMPETENCIES

Experts in Engineering

From chip design, SoC architecture and miniature cameras to complete embedded systems – we cover the full spectrum of modern electronics hardware and software development.



SoC Design

More than 25 years of experience in the microelectronics industry make us experts in turnkey solutions from specification to tape-out and post-silicon testing.

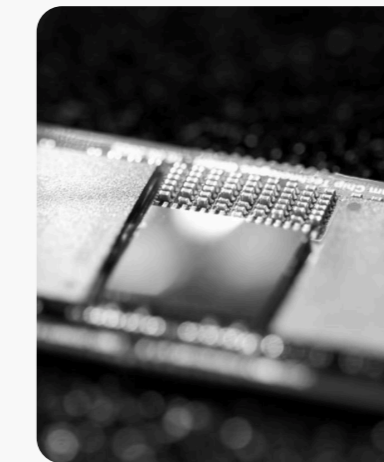
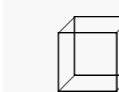
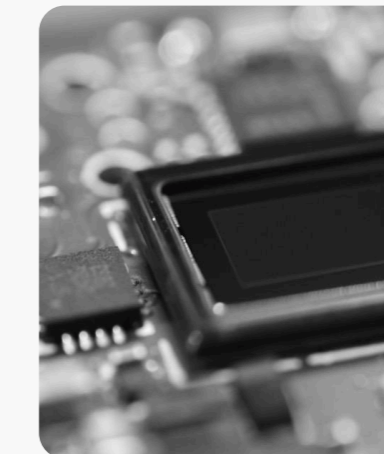


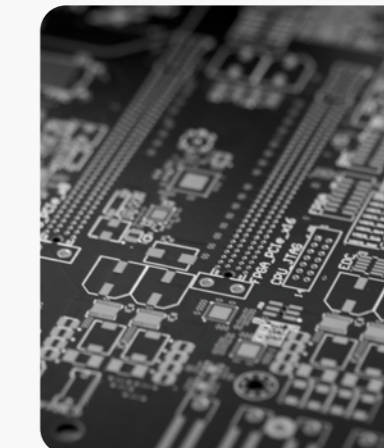
Image Signal Processing

Whether lowest power for wearables or highest dynamic range for automotive, we have modular IP for every application.



Embedded Products

Whether in the automotive, broadcast, consumer, industrial or medical market – our clients know they can always rely on our outstanding engineering skills.



INDUSTRIES

We enable Future Technologies

Our SoC and ASIC solutions power the technologies shaping tomorrow's world. We engineer silicon and systems that meet the most demanding requirements across markets and applications.



Smart Mobility

Reliable automotive vision, perception and edge AI processing.



IoT / Industrial

Efficient embedded vision and intelligent edge computing solutions.



High-Performance Computing

High-performance processing for scalable digital systems.



Broadcast

Professional image processing, miniature and high-speed cameras.

CHIPS DOWN TO **3 nm**

HDR-ISP UP TO **28 bit**

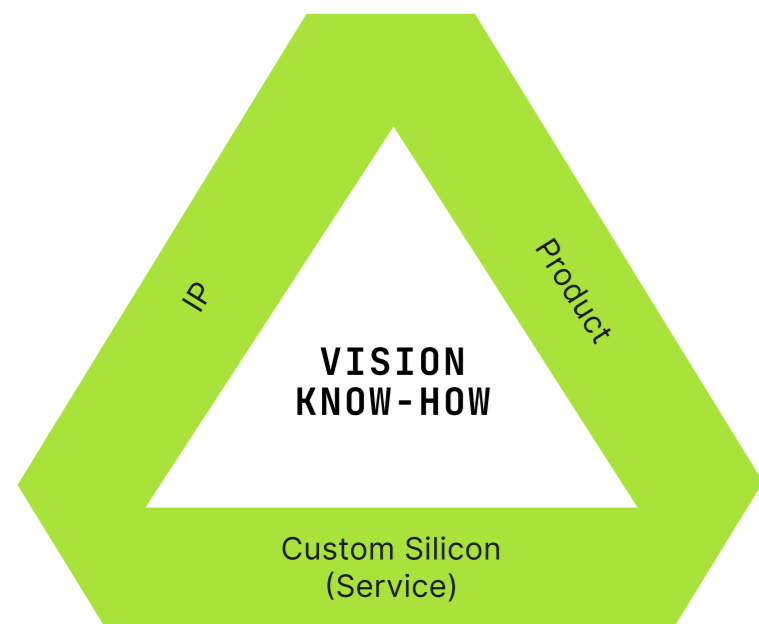
FOUNDED **2004**

EMPLOYEES **3.500+**

TESSOLVE
A HERO ELECTRONIX VENTURE

From Plan to Performance

Thorough internal knowledge and state-of-the-art infrastructure enable Dream Chip Technologies to cover all aspects of custom SoC design. We are passionate about turning ideas into silicon reality – from the architecture phase through tape-out to post-silicon bring-up, we craft and optimize large-scale chip designs that deliver flawless performance and exceed expectations.



Optimized for Efficiency, Reliability, and Compliance

Dream Chip's ISP is designed for low latency and optimized silicon area, ensuring high performance with minimal resource usage. As a silicon-proven solution, it delivers reliable real-world results while maintaining compliance with ISO 26262 safety standards.

- SCALABLE
- CUSTOMIZED
- SILICON-PROVEN
- LOW-LATENCY
- POWER-OPTIMIZED

Scalable Performance

- UP TO 64 MP RESOLUTION
- 120 FPS & 1.3 GIGAPIXELS PER SECOND
- DYNAMIC RANGE 12 UP TO 28 BIT

Modular Flexibility

- CUSTOMIZED / TAILORED FUNCTIONALITY
- SPECIFIC PERFORMANCE NEEDS
- OPTIMIZED RESOURCE USAGE

Proven Reliability

- SILICON PROVEN
- ISO 26262 CERTIFIED
- BIT-TRUE SIMULATION TOOLS

Embedded Excellence from Concept to Production

We provide end-to-end product design services, guiding customers from initial concept through manufacturing under a flexible ODM model. Our multidisciplinary teams cover system architecture, hardware and mechanical design, BSP and firmware development, middleware and third-party application integration, as well as full application development.

Robust product realization is ensured through rigorous testing, validation, production management, and lifecycle support. By tailoring each platform to specific customer needs - including intuitive HMI design and optimized mechanical enclosures - we deliver reliable, scalable, and market-ready embedded solutions that maximize performance, usability, and long-term value.

Firmware/Software

- ROBUST & SCALABLE SOLUTIONS
- STRONG INDUSTRY PARTNERSHIPS

FPGA

- BROAD TOOLS & DEVICE KNOWLEDGE
- COMPREHENSIVE DEVELOPMENT

Hardware

- END-TO-END ENGINEERING
- CUTTING-EDGE TOOLS

Built for Broadcast. Ready for Anything.

Atom cameras deliver uncompromising image quality and reliability: designed for professional applications, they combine high dynamic range, excellent low-light performance and precise color reproduction in a compact and robust form factor.

- GLOBAL SHUTTER
- SMALLEST FORMFACTOR
- HIGH DYNAMIC RANGE
- LOW LATENCY

Atom Two

With its global shutter sensor, Atom Two eliminates motion distortion and delivers geometrically undistorted images even during the fastest movements – essential for sports production & live events.



Atom SSM 501/502

The Atom SSM delivers Full HD images at up to 500 fps from a 2/3" global shutter sensor without compromises between recording duration and frame rate.



Your trusted partner – all the way from Idea to Chip.

We're excited to hear about your vision. Let's discuss how Dream Chip can support your project with scalable architecture, cutting-edge performance, and expert customization. Our engineers are passionate about solving complex challenges and bringing ambitious visions to life – get in touch with our experts today.

Want to become part of the Dream Team?

Visit dreamchip.de/career to see our open positions.

