sondrel

Complexity delivered simply

From Concept to Silicon Supply

Large Complex Digital IC Design

Sondrel is a unique and trusted provider of high quality IC design and supply across multiple end markets. We offer our clients a turnkey service from system design to the supply of production silicon: one reliable partner for the whole journey.

Design Capability

Since 2002 Sondrel has provided outsourced IC consultancy to some of the world's leading technology brands, gaining access to the most advanced processes and technologies and the design challenges they present. Our experience of the newest IP, processes and technologies allows us to draw from the broadest possible range of options in our concept to silicon design work. As an independent design company the objectivity we bring to IP selection works to your advantage.

Domain Expertise

Whether we are working with an established semiconductor or systems business or an innovative start-up, our strength lies in the ability to translate your innovation into an SoC with the on-chip resources to meet your system requirements efficiently. Our domain experts have extensive experience of designs with challenging power management requirements and multiple CPU/GPU architectures for applications in a wide range of markets.

Industry Collaboration

We work closely with IP Vendors, EDA suppliers and foundries to maintain a current knowledge of the newest processor cores, IP, tools and silicon processes. We invest in collaboration with industry leaders to set new benchmarks in IC design.

Key Facts

- 200+ highly qualified IC engineers
- 100s of designs to 5nm
- UK headquartered
- 7 offices worldwide
- Founded 2002

Locations

HQ	Reading, UK
UK	Bristol
USA	San Jose
China	Shanghai, Xi'an
Morocco	Rabat
India	Hyderabad

ISO 27001 CERTIFIED — UKAS MANAGEMENT SYSTEMS — British Assessment Bureau

ISO 9001:2015

Accreditations

arm APPROVED DESIGN PARTNER

Arm Approved Design Partner

SAMSUNG FOUNDRY

SAFE™ Design Service Partner

tsmc

TSMC Design Centre Alliance Partner

GSA

Global Semiconductor Alliance Member

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Your Partner from System to Silicon Supply

CONCEPT	PLANNING	EXECUTION	NPI	SUPPLY CHAIN
MARKET REQUIREMENTS & SPECIFICATIONS	PROJECT MGMT PLAN	RTL DESIGN	HW / SW BRING-UP	PRODUCTION
FEASIBILITY STUDIES	HW/SW ARCHITECTURE	PHYSICAL DESIGN	MPW & PACKAGING	WAFER PROCUREMENT
POWER, PERFORMANCE & AREA ANALYSIS	ENGINEERING SPECS	VERIFICATION	TEST & QUALIFICATION	PACKAGING, ASSEMBLY & TEST
	EDA TOOLS	DFT & DFM	CHARACTERISATION	QUALITY, YIELD & RMA
	SOURCE IP SELECTION	SW DEVELOPMENT	PRODUCTION MASK SET	PRODUCT DELIVERY
	FOUNDRY CHOICE	PACKAGING DESIGN		

Silicon Supply

Sondrel works closely with the industry's leading silicon foundries and Outsourced Semiconductor Assembly & Test (OSAT) houses to delivery your volume production – one partner for the whole journey.

Specialist Knowledge

Engineering Disciplines

Architecture	Defining high level concepts and value propositions
Design	From Functional Specification to the start of physical design
Embedded Security	Expert Arm® Design Partner for PSA certifiable designs
Software	Developing and integrating embedded software
Verification	High quality, reusable VIP and UVM methodologies
Physical Design	Implementing large complex digital designs in new technologies
Design for Test	High quality, high yield, efficient manufacturing screening
Operations	Selection and management of IP, package design, test, fabrication, and yield management

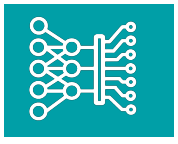
Domain Experience

Video Processing

IoT

Video Analytics

Automotive


Machine Learning

AR/VR

Blockchain

Artificial Intelligence

Networking

Hundreds of IC designs from 18µ to 5nm