

## Overview

Ashling Microsystems has the know-how (30+ years' experience) and scalable resources (800+ engineers) to meet the diverse needs of embedded application developers. Our key differentiators are **focused engineering expertise, flexibility and responsiveness**. We provide **industry-leading solutions and tools** that support the high intensity phases of an embedded development project i.e. code development, test, debug and validation. We support a broad range of processor cores including ARC®, ARM®, MIPS®, Power Architecture®, and RISC-V. We offer **tailored solutions** that match your specific requirements.

As a **tried and trusted developer** of high performance leading-edge embedded solutions focused on end-user needs, Ashling can partner with you in expanding your RISC-V ecosystem.

### Software Ecosystem Solutions

Software expertise is one of Ashling's core competencies and an essential part of our success. Our developers have **in-depth knowledge and experience** in the following areas:

- Embedded systems development: bare-metal, RTOS- and OS-based
- Porting/optimising software between architectures
- Open-source technologies: Linux, GNU toolchain, Eclipse IDE
- Host-side development on Windows and Linux platforms
- Smart card OS, cryptography and application development

### Hardware Ecosystem Solutions

We complement our software expertise with **extensive hardware know-how** in the following areas:

- Hardware debug and trace technologies
- FPGA design (VHDL)
- Hardware validation and test
- FPGA prototyping

### Embedded Development Tools

At Ashling our engineers understand the challenges and issues facing embedded system developers. Over the years we have leveraged our software and hardware expertise to develop a comprehensive range of **industry-leading tools**. We can provide any of the following functions:

- IDE/Compiler/Simulator/Debugger
- High performance JTAG debug probe
- Real Time Trace in multicore systems
- Code Coverage
- Performance Analysis and Profiling
- Smart card protocol analysis

