

MODULAR, POWERFUL AND FUTURE PROVEN

DEBUG & TRACE SYSTEM

for any Arm®-based SoC

Every year **500+** new Arm-based chips of all major semiconductor suppliers supported

The success story of Arm is also part of the success story of Lauterbach: The leading debug and trace development tools for the embedded industry support not only all today's chips implementing the Arm®CoreSight™ debug and trace infrastructure: Thanks to the long-standing close partnership with semiconductor manufacturers implementing Arm® technology, future chip developments are also accompanied by Lauterbach from the very beginning – ensuring a future-proof investment.

PowerDebug

Lauterbach's PowerDebug System is a powerful, modular, flexible debug system that adapts and grows with customers needs when moving from project to project and chip to chip. It can be extended with an optional trace module to debug and trace embedded targets in real-time.

PowerTrace

Lauterbach's PowerTrace extensions provide full insights of what an embedded system is doing without impacting its real-time performance in any way. For system profiling or safety certification trace analysis is essential. In many other use cases it can support in bringing embedded designs to market faster, safer and more reliably than ever. PowerTrace is available in two editions for parallel and serial trace to cover any chip architecture.

μTrace Debug & Trace-Tool

Lauterbach's cost-effective all-in-one debug and off-chip trace solution was developed especially for Arm® Cortex®-M processors.



KEY-FEATURES:

- Modular system that is designed to grow and adapt as needs. All modules are driven by the same intuitive User Interface to maximize the return on investment.
- Optional Analog/Digital or Mixed Signal probes can correlate external signals with the program execution.
- Full support of Arm® CoreSight™ debug and trace infrastructure at highest performance.
- Full support of all common core architectures integrated into your Arm®-based SoC including DSPs and configurable cores such as ARC® and Xtensa®.
- Support of MMU and real-time hypervisors.
- Support of Linux and other rich-OS as well as static OS including AUTOSAR.
- Easy switch from one Arm®-based SoC to another Arm®-based SoC while keeping the same debug and trace module and user interface.
- Full remote control and scripting support for test automation and regression tests.

NEWS

Debug and Trace Support for Next-Generation Arm® Automotive CPUs

Lauterbach now also support Arm's newest Armv9.2 automotive CPUs Neoverse(TM)-V3AE, Cortex®-A720AE, Cortex-A520AE and Cortex-R82AE.

Debug and Trace Support for Newest Arm® Server Processors

Lauterbach now also support all Arm's leading-edge Armv9-A server processors Neoverse V2, Neoverse N2 and Neoverse E2.

Full Debug Support for Cortex-X4, Cortex-A720, and Cortex-A520

Lauterbach provides full debug and trace support for Arm's newest leading-edge Armv9.2 processors Cortex-X4, Cortex-A720, and Cortex-A520.

CSWP- and XCP- Debugging for Arm® Cortex

Lauterbach supports debugging via Arm® CoreSight Wire Protocol as well as XCP for Arm®Cortex CPUs.

Full Support for Arm®v9

Lauterbach provides full debug and trace support for the Arm®v9 architecture. It is also available to existing Arm®v8 customers via a software update.

www.lauterbach.com/arm





HARDWARE-Based Solutions for all Arm®-Cortex®-Cores

μTrace®



All-in-one Debug- and Trace-Tool for Cortex®-M

PowerDebug System



Powerful, modular, flexible debug system supporting any Arm®-CPU in any chip

PowerTrace System



Highest Performance Trace Recording of entire Arm®-based systems



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VIA XCP



xcp

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