

MODULAR, POWERFUL AND FUTURE PROVEN

Debugger & Trace Solutions for **MICROCHIP** Microprocessors, Microcontrollers and DSCs

Microchip® offers a comprehensive portfolio of Microcontrollers (MCUs), Microprocessors (MPUs) and Digital Signal Controllers (DSCs) to address requirements across a wide set of industries and applications. They implement several kinds of Arm®, RISC-V® and inhouse-designed CPUs.

Lauterbach's market leading TRACE32® debug and trace development tools provide not only full insights into all today's Microchip chips for the whole SoC lifecycle: They also facilitate the path to certification for safety-critical applications in accordance with ISO 26262, IEC 61508 and other standards.

Thanks to the long-standing close partnership with Microchip, future chip developments are also accompanied by Lauterbach from the very beginning ensuring a future proof investment.

KEY FEATURES

Unlimited Multicore Debugging

Microchip MPUs, MCUs and DSCs implement different kinds of Arm®, RISC-V® and inhouse-designed CPUs like AVR32 or dsPIC®. No matter what kind of multicore system is used, Lauterbach's TRACE32® tools support them all.

OS-Aware Debugging of Any Core

Lauterbach's TRACE32® OS-aware debugging provides key insights into applications and the operating systems they are running on, no matter if rich operating systems like Linux, real-time operating systems (RTOS), or a mixture of all is used. With this, engineers can better understand how they are behaving and utilizing chip resources.

Simplifying Certification of Safety-Critical Applications

Lauterbach's certified Tool Qualification Support Kits (TQSK) provide everything developers need to qualify TRACE32® solutions according to ISO 26262, IEC 61508 and IEC 62304. Different TQSK variants prove the suitability of code coverage, debugging, and instruction set simulator to reduce time-to-market, effort, and costs.

Covering the Whole Microchip Chip Lifecycle

Besides to real silicon, TRACE32® tools can connect to various simulators, emulators, and virtual targets. Developers can reuse the scripts generated in this phase throughout the entire product life cycle because the user interface and scripting commands stay the same from simulations through use in the field by the customers.

DOWNLOAD OUR SOLUTIONS OVERVIEW



All information about Lauterbach's products for debugging and tracing.



LEARN MORE @
lauterbach.com

MICROCHIP®



DEBUGGER and TRACE-Solutions for All Microchip® MPUs, MCUs and DSCs

Chip-Family	Architectures	Debug	On-Chip Trace	Off-Chip Trace	XCP Debugging	Instruction Set Simulator
CHIPS		AVAILABLE TRACE32® SOLUTIONS				
dsPIC33	dsPIC®	✓ 1/4	—	—	—	—
PIC®32 CK/CM/CX/CZ	Arm® Cortex-M	✓ 1/2/4	✓* 1/2/4	✓* 2/4	✓ 5	✓ 6
PIC® 64	RISC-V® 64-bit	✓ 1/4	—	—	—	✓ 6
PolarFire®	RISC-V® 64-bit	✓ 1/4	✓ 1/4	✓ 3	—	✓ 6
...further Microchip® Cores	Please search Lauterbach's chip database – see QR code below					

* : Availability depending on the sub series



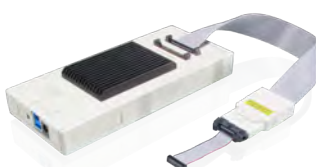
Find the Right TRACE32® Solution for Your Chip:
[lauterbach.com/supported-platforms/microchip](https://www.lauterbach.com/supported-platforms/microchip)

PowerDebug System



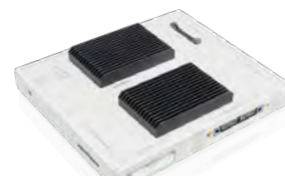
1 Powerful, modular, flexible debug system for 150+ microprocessor families

µTrace®



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

PowerTrace System



3 Highest performance parallel and serial trace system

CombiProbe 2



4 Compact debug & trace probe for low-bandwidth trace capture

XCP Debug & Trace



5 Software debugger via XCP measurement and calibration protocol

Instruction Set Simulator



6 ISS for developing or testing application code without target hardware