

Knowledgebase > FAQs by core architecture > TriCore > [TriCore] CombiProbe for TriCore Use Cases

[TriCore] CombiProbe for TriCore Use Cases 2024-06-21 - Comments (0) - TriCore

The prevalent use case of CombiProbe for TriCore is DAP Streaming, introduced by Lauterbach in 2017.

The CombiProbe:

- Has 512 MByte of trace memory
- Supports debug port type DAPWide and DAP4
- Supports a high clock rate of the debug port (up to 160 MHz)

These key features make it a perfect fit to support DAP Streaming for the AURIX[™] TriCore[™] microcontrollers.

In April 2023, Lauterbach introduced the AUTO26 Debug Cable V3. Thanks to its improved design, the V3 cable combined with a suitable PowerDebug module (e.g., PowerDebug PRO, PowerDebug E40, or PowerDebug X50) offers an additional configuration to be used for DAP Streaming. See the following link for more details:

DAP Streaming with Debug Cable for TriCore AURIX

Nevertheless, CombiProbe for TriCore is still required for:

- DAP Streaming using older Power Debug Modules (e.g., Power Debug Interface USB 3.0, PowerDebug II).
- Correlation with Mixed-Signal Probe
 Connected to port B of a CombiProbe 2, a Mixed-Signal Probe can be used to record digital and analog signals, which can be correlated to the recorded program flow. This way it is easy to verify signaltimings which are initiated by the application software, or to calculate the power consumption of specific program parts.
- Starting from June 2024, TRACE32 provides dual AUTO26 whisker support for CombiProbe. This allows to debug two different TriCore[™] systems simultaneously using the same tool. DAP streaming from both targets is also supported.