# Synchronized Multi-Target Debugging 12

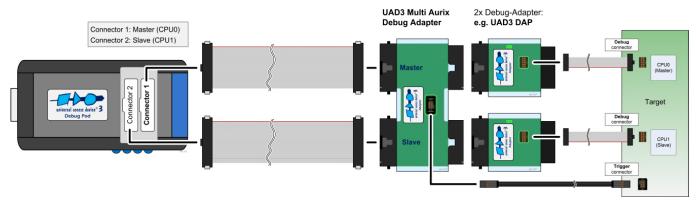
**UAD3 Multi AURIX Debug Adapter** 

The UDE® Multi AURIX debug solution supports AURIX™ systems with two separate microcontrollers (MCUs) within one target system. It is intended, among other things, for debugging and testing of applications where highest degrees of functional safety and fault tolerance are achieved by redundancy of MCUs.

The UAD3 Multi AURIX Debug Adapter is an adapting solution and extension for the Universal Access Device 3+ (UAD3+). It enables synchronized debugging of AURIX™ multi-chip systems with two tightly coupled AURIX™ MCUs (e.g. Infineon's Automotive Ethernet Gateway Evaluation Board) in one single debug session. The UDE® Multi AURIX debug solution ensures synchronous stop, single step and restart as well as synchronized suspend of peripherals.

A standard Debug Adapter is connected to each of the separate debug interfaces of the two AURIX™ MCUs. These are then connected via the UAD3 Multi AURIX Debug Adapter to a Debug Pod of the UAD3+, which provides the two necessary debug channels.

The UAD3 Multi AURIX Debug Adapter is equipped with an additional connector for specific trigger signals of the two AURIX™ MCUs. The special logic of the UAD3 Multi AURIX Debug Adapter links the trigger lines in such a way, that the two MCUs can be stopped and restarted synchronously and also enables synchronized single steps.



### At a Glance - UAD3 Multi AURIX Debug Adapter

- Synchronous stop, single step and restart of two AURIX™ microcontrollers
- Synchronized suspend of peripherals ensures always consistent target state while debugging
- Seamless integration into Universal Debug Engine® (UDE®):
  Multi AURIX debugging in one debug session within a common, consistent user interface
- Delay from CPU output pin to input pin: 65ns +-20ns (approx. 20 clock cycles @ 300 MHz CPU)
- Trigger line IO voltage range: 1.65 V 5.5 V

#### If you have any questions about our products, please feel free to contact us:

**PLS** Programmierbare Logik & Systeme GmbH Technologiepark Lauta D-02991 Lauta

Germany

Phone: + 49 35722 384 - 0

**PLS** Development Tools 10080 N. Wolfe Rd., Suite SW3-200 Cupertino, CA 95014

USA

Phone: +1-949-863-0327 Toll Free: +1-877-77-DEBUG

www.pls-mc.com info@pls-mc.com



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## Synchronized Multi-Target Debuggingne

### ProductCode P2095 for ordering UAD3+-Multi-AURIX-Debug-Adapter and cables

It contains following hardware

- 2095 Adapter with two 40-pin UAD3+ Debug Pod connectors, two 40-pin UAD3+ Adapter connectors and one 6-pin TFM-103 trigger connector
- 2005 40-pin HD flat ribbon Adapter cable between UAD2pro, UAD2next or UAD3+ IO Pod and JTAG Adapter, 10" (25cm)
- 2005 40-pin HD flat ribbon Adapter cable between UAD2pro, UAD2next or UAD3+ IO Pod and JTAG Adapter, 10" (25cm)
- 2096 6-pin TFM/SFSD cable with two 6-pin female target headers, 12" (30cm)

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