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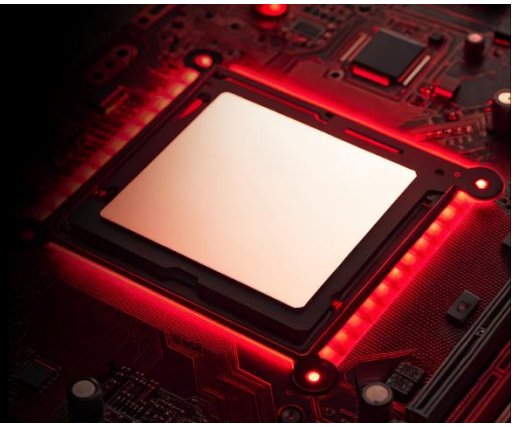
Hitex Tech Tips

Debugging Development



Using a ULINK Pro Debug Adapter with MDK6

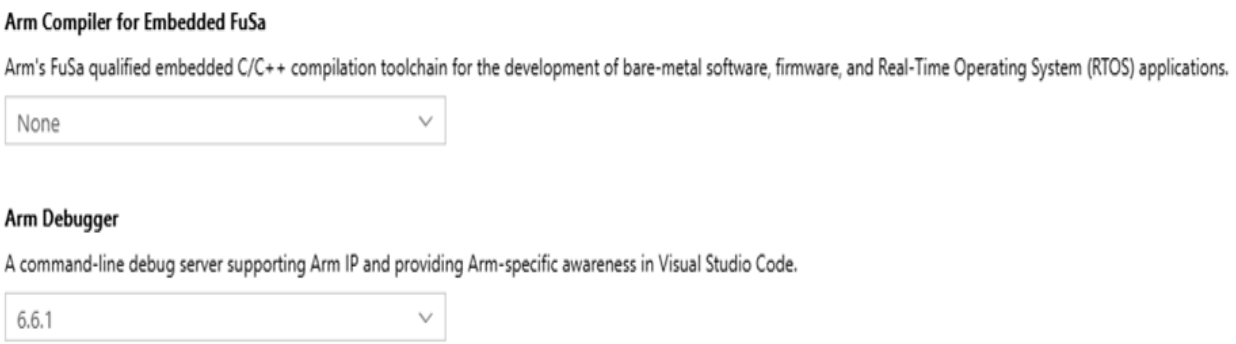
By Trevor Martin

Introduction

The MDK6 contains two ‘debug engines’; the CMSIS Debugger and the Arm Debugger. The CMSIS Debugger supports debug adapters that use the CMSIS-DAP interface with the PyOCD python package. The Arm debugger supports the Keil ULINK family, CMSIS-DAP and ST-Link. While there is some overlap between the two the default debug engine is the CMSIS Debugger however the Arm Debugger gives access to the Keil ULINK debug adapters. The instructions below describe how to configure the debug interface to use the Arm debugger and a ULINK Pro debug adapter.

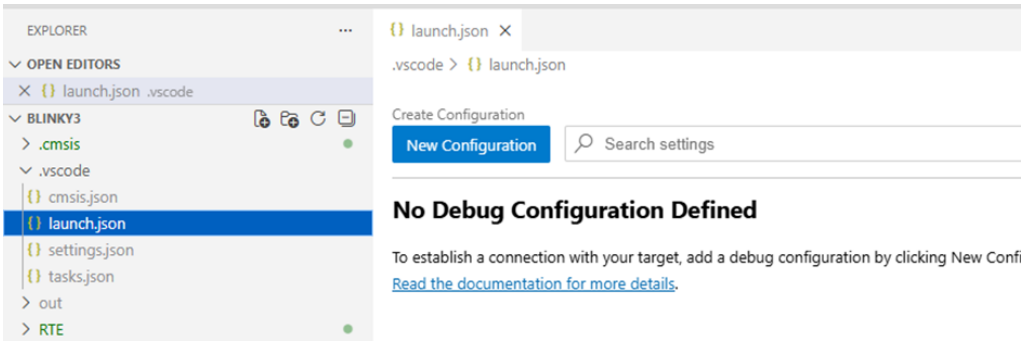
1. Enable the Arm Debugger

In the Arm Tools Registry make sure the Arm Debugger is enabled.



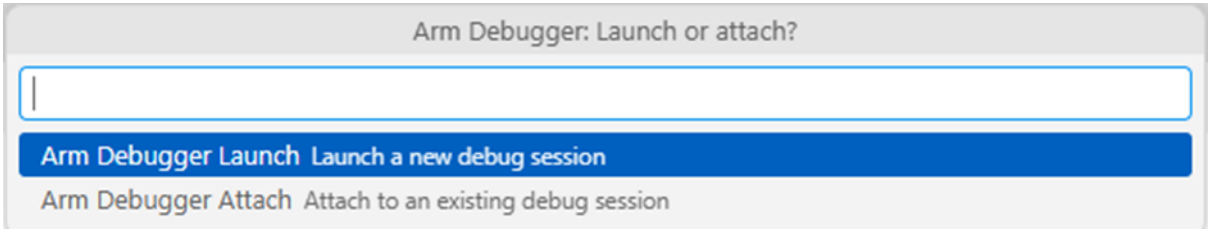
2. Add a new debug configuration

Go to the explorer view and open the launch.json file and select new configuration.

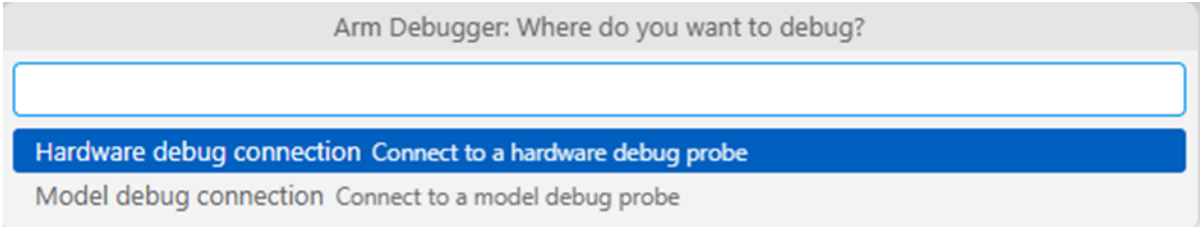


3. Select the Arm Debugger

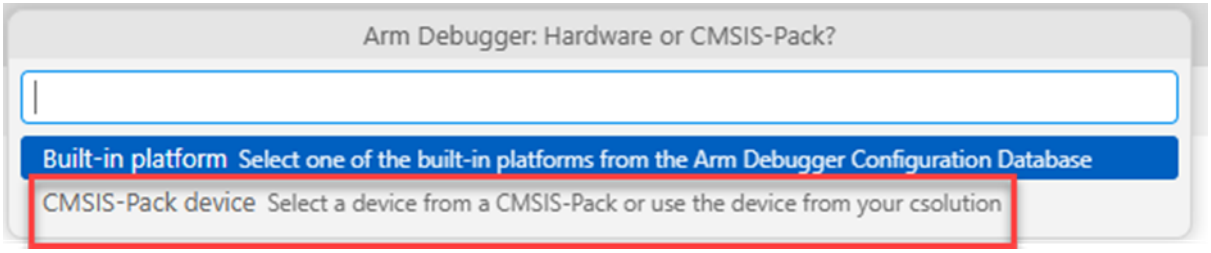
In the command pallet select" Arm Debugger Launch".



Then select "Hardware Debug connection"

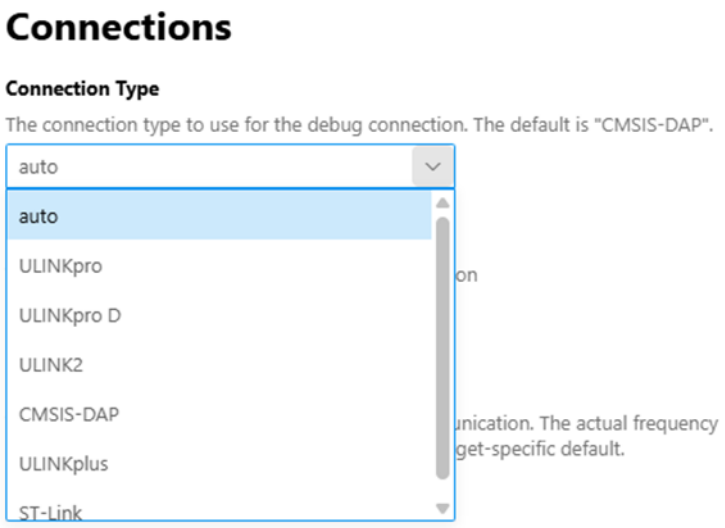


Finally select "CMSIS Pack Device". This is the most critical step



4. **Select the debug Adapter**

This will now give you a debug connection configured for the Arm Debugger. In the connections section you can select ULINK Pro.



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