ULINK2 User's Guide: Enable Serial Wire Trace Page 1 of 2

Enable Serial Wire Trace

To enable Serial Wire Trace on STMicroelectronics STM32F10xxx devices:

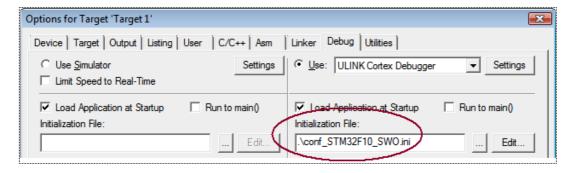
- Use a <u>ULINK2 connector interface</u> that supports Serial Wire, and connect **ULINK2** to the board and to the host computer.
- Enable the Trace Port Interface as described in the STM32F103xx Reference Manual, chapters Pinout and Debug Port Pins and TRACE Pin Assignment.
- Configure µVision to capture trace data.

Enable the Trace Port Interface

1. Create a text file, for example conf_STM32F10_SW0.ini, and enter the following code:

Use the <u>WDWORD</u> command to configure the TRACE_IOEN and TRACE_MODE bits of the **DBGMCU_CR** register: **_WDWORD(0xE0042004, 0x00000020)**;

 Open the dialog Options for Target — Debug and insert conf_STM32F10xxx.ini into the Initialization File field.

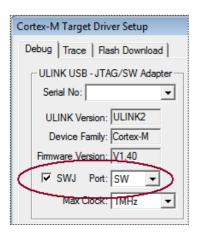


Configure µVision to capture trace data

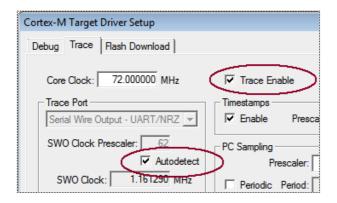
1. Open the dialog Options for Target — Debug.



2. Enable **Use**, select **ULINK Cortex Debugger**, and click **Settings** to open the **Target Driver Setup** dialog.



- 3. Enable SWJ and select SW.
- 4. Click the **Trace** tab.



- 5. Set Trace Enable and Autodetect.
- 6. The **Core Clock** must correspond to the device configuration.

Start the debugging session and verify the captured trace data with a $\mu Vision window$.

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- Always synchronize the settings in the *.ini file with the settings in the Target Driver Setup— Trace Port dialog.
- Use the examples delivered with the Keil board MCBSTM32E as a reference.

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