

J-Link cannot find IC

Questions:

Jlink cannot find IC in Keil or IAR project (related to compilation environment)

Answer:

When the Keil project compiled by the engineer was provided to other engineers, it is found that the J-Link cannot find IC even if the IC can be found by ICP software and the project can be compiled successfully. In most cases, the possible reason is that Keil or IAR compiler calls its built-in Segger driver that does not support AT32 MCU.

Method 1:

- 1) In Keil project, find *JLinkLog.txt* and *JLinkSettings.ini* folders and delete them, as shown below:

objects	2022/11/7 17:45	文件夹
JLinkLog.txt	2022/11/8 9:19	文本文档
JLinkSettings.ini	2022/11/8 9:20	配置设置

In IAR project, delete *xxx.jlink* in the *settings* folder

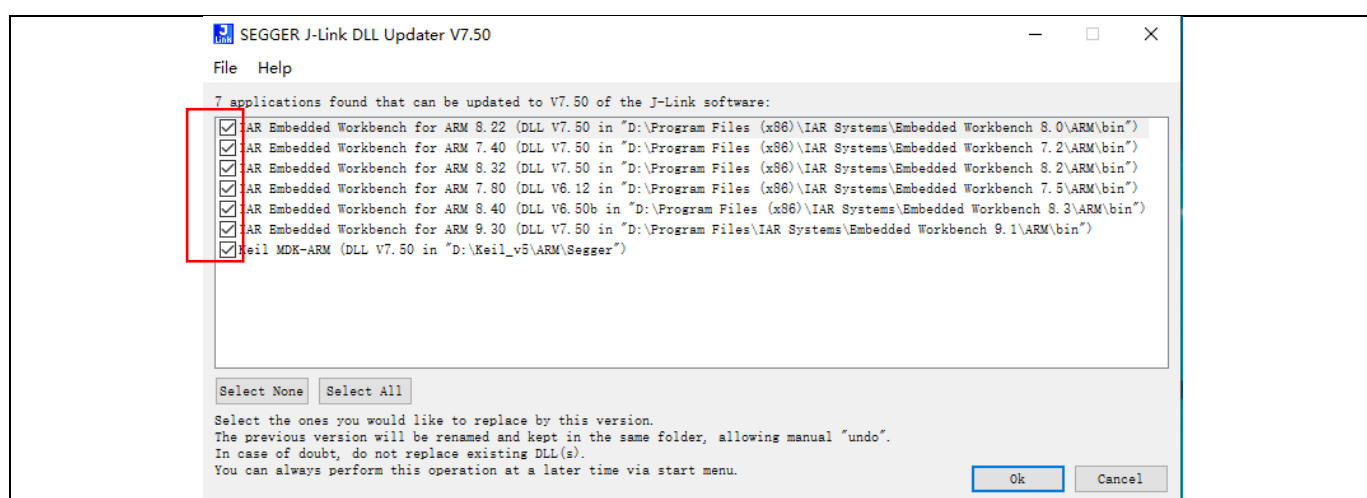
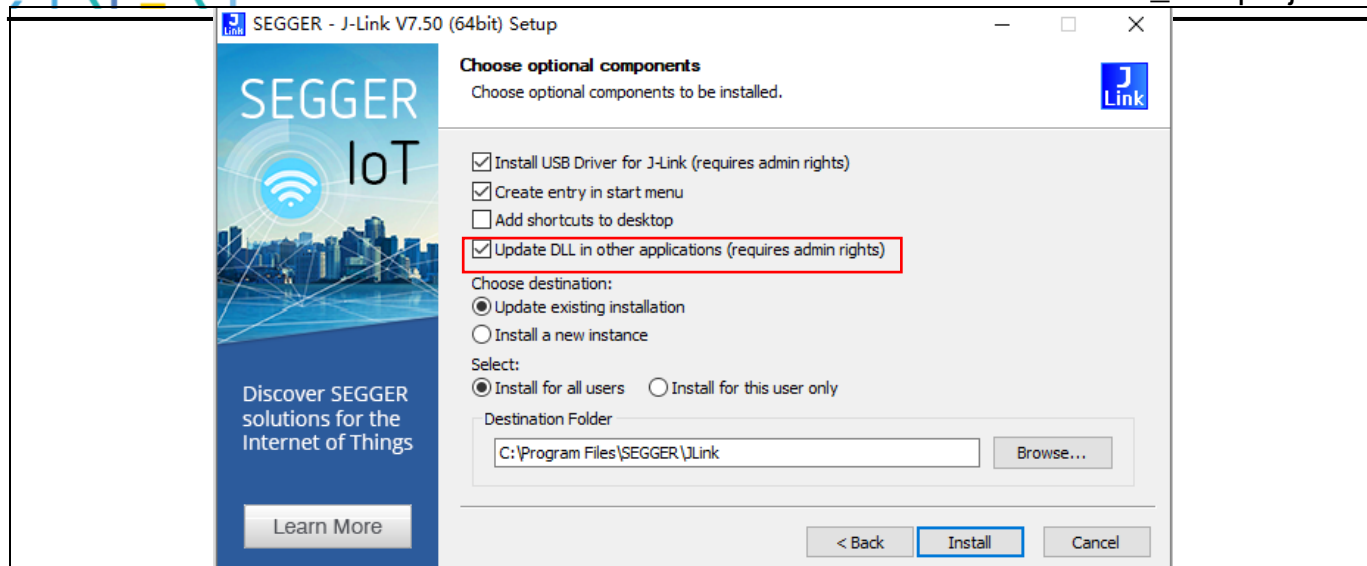
template.dnx	2022/11/7 18:59	DNX 文件
template.wsdt	2022/11/7 18:59	WSDT 文件
template_Debug.jlink	2022/11/7 18:59	JLINK 文件

- 2) From the drop-down box of Segger J-link, select a core type corresponding to MCU you are using, such as "Unspecified Cortex-M4"

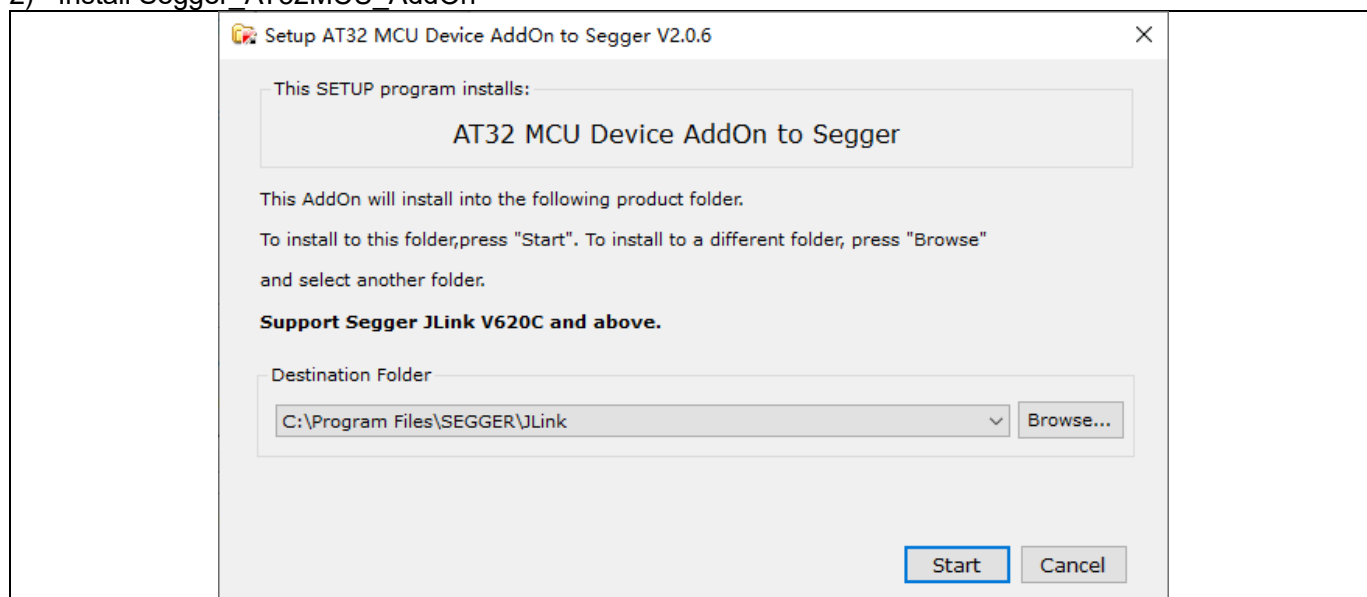
SEGGER J-Link V7.50 - Target device settings				
Selected Device: Cortex-M4				
		Little Endian		Core #0
Manufacturer	Device	Core	NumCores	Flash Size
Filter	Filter	Filter	Filter	Filter
Unspecified	Cortex-A57	Cortex-A57	1	-
Unspecified	Cortex-A72	Cortex-A72	1	-
Unspecified	Cortex-M0	Cortex-M0	1	-
Unspecified	Cortex-M0+	Cortex-M0	1	-
Unspecified	Cortex-M1	Cortex-M1	1	-
Unspecified	Cortex-M3	Cortex-M3	1	-
Unspecified	Cortex-M4	Cortex-M4	1	-
Unspecified	Cortex-M7	Cortex-M7	1	-
Unspecified	Cortex-M23	Cortex-M23	1	-

Method 2:

- 1) Install Segger software package (v6.20c and above), and tick the following options in the dialogue box (these options are ticked by default, do not change them)



2) Install Segger_AT32MCU_AddOn



- 3) When running Keil, you can select the corresponding MCU from the drop-down box. When running IAR, there is no drop-down box

SEGGER J-Link V7.50 - Target device settings

Selected Device: AT32F421C8T7 Little Endian Core #0

Manufacturer	Device	Core	NumCores	Flash Size
Arterytek	Filter	Filter	Filter	Filter
Arterytek	AT32F421C8T7	Cortex-M4	1	64 KiB
Arterytek	AT32F421_AFMODE_16	Cortex-M4	1	16 KiB + 4 KiB
Arterytek	AT32F421_AFMODE_32	Cortex-M4	1	32 KiB + 4 KiB
Arterytek	AT32F421_AFMODE_64	Cortex-M4	1	64 KiB + 4 KiB
Arterytek	AT32F421C4T7	Cortex-M4	1	16 KiB
Arterytek	AT32F421C6T7	Cortex-M4	1	32 KiB
Arterytek	AT32F421C8T7	Cortex-M4	1	64 KiB
Arterytek	AT32F421C8W	Cortex-M4	1	64 KiB
Arterytek	AT32F421C8W-YY	Cortex-M4	1	64 KiB
Arterytek	AT32F421F4P7	Cortex-M4	1	16 KiB

Type: Development tool

Applicable products: All MCUs

Main function: None

Minor function: None

Document revision history

Date	Revision	Changes
2022.2.16	2.0.0	Initial release
2022.11.7	2.0.1	Added IAR descriptions. Updated Keil descriptions.

IMPORTANT NOTICE – PLEASE READ CAREFULLY

Purchasers are solely responsible for the selection and use of ARTERY's products and services, and ARTERY assumes no liability whatsoever relating to the choice, selection or use of the ARTERY products and services described herein.

No license, express or implied, to any intellectual property rights is granted under this document. If any part of this document deals with any third party products or services, it shall not be deemed a license grant by ARTERY for the use of such third party products or services, or any intellectual property contained therein, or considered as a warranty regarding the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

Unless otherwise specified in ARTERY's terms and conditions of sale, ARTERY provides no warranties, express or implied, regarding the use and/or sale of ARTERY products, including but not limited to any implied warranties of merchantability, fitness for a particular purpose (and their equivalents under the laws of any jurisdiction), or infringement of any patent, copyright or other intellectual property right.

Purchasers hereby agrees that ARTERY's products are not designed or authorized for use in: (A) any application with special requirements of safety such as life support and active implantable device, or system with functional safety requirements; (B) any air craft application; (C) any automotive application or environment; (D) any space application or environment, and/or (E) any weapon application. Purchasers' unauthorized use of them in the aforementioned applications, even if with a written notice, is solely at purchasers' risk, and is solely responsible for meeting all legal and regulatory requirement in such use.

Resale of ARTERY products with provisions different from the statements and/or technical features stated in this document shall immediately void any warranty grant by ARTERY for ARTERY products or services described herein and shall not create or expand in any manner whatsoever, any liability of ARTERY.

© 2022 Artery Technology -All rights reserved