

Can J-Link interfaces be used with ST-Link



AI Overview

ST-Link on-board can be upgraded to function as a J-Link OB, allowing most J-Link features on STM32 evaluation boards, but direct use of a standard J-Link with ST-Link hardware is not natively supported.

ST-Link to J-Link Compatibility ST-Link is a programmer/debugger designed specifically for STMicroelectronics devices, connecting via SWD or JTAG interfaces, while J-Link is a versatile debugger from SEGGER that supports multiple microcontroller families. Directly connecting a J-Link interface to an ST-Link on-board programmer is not natively possible because ST-Link uses its own protocol and lacks a standard JTAG connector on many STM32 Nucleo or Discovery boards.

Firmware Upgrade Option SEGGER provides a firmware upgrade for ST-Link on-board that converts it into a J-Link OB. After this upgrade, the ST-Link on-board can:

- Use most J-Link features, including ultra-fast flash download and debugging speed.
- Connect to the J-Link GDB server via the existing USB port.
- Work with STM32 evaluation boards for development and evaluation purposes only.

Limitations: The firmware is only for ST target devices and evaluation boards; it cannot be used with custom hardware or production systems. Not all J-Link features are available; this is effectively a J-Link Lite version.

Hardware Adaptation For a fully featured J-Link experience, some hardware modifications may be required:

- A custom ribbon cable can connect the 6-pin ST-Link connector to a 20-pin J-Link connector.
- A short strap may be needed to bring Vcc to pin 1 of the 6-pin connector so that J-Link can detect the board.
- Adapter PCBs exist that allow connecting either a J-Link or ST-Link to a microcontroller via jumper cables or headers, providing flexibility for custom setups.

Summary Direct use of J-Link with ST-Link hardware is not supported without firmware or hardware modifications. Upgrading ST-Link on-board to J-Link OB is the recommended method for using J-Link features on STM32 evaluation boards. For professional or full-featured J-Link debugging, hardware adaptation or a dedicated J-Link

Article Content

ST-LINK to J-LINK: Can You Really Use an ST-LINK V2-1 as a

The article explores whether an ST-LINK V2-1 can serve as a J-LINK alternative for STM32 development, confirming its viability for most tasks, especially when advanced features like real-time

ST-LINK On-Board

This firmware makes the ST-LINK on-board compatible with J-Link OB, allowing users to take advantage of most J-Link features like the ultra fast flash download

Differences between JTAG, JLink, ULINK and ST-LINK emulators

J-Link is a JTAG-based emulator launched by German SEGGER. Simply put, it is a JTAG protocol conversion box, that is, a small USB to JTAG conversion box, which connects to the

STM32CubeProgrammer software description

It allows the user to select the target interface (either the debug interface using ST-LINK/J-Link debug probe, or the bootloader interface over UART, USB, SPI, CAN, or I2C).

JTAG Questions: what does JLink / STLink work on? : r/embedded

JTAG Questions: what does JLink / STLink work on? Can I program any FPGA with the JTAG interface of a JLink? I keep seeing every single debugger and JTAG adapter advertised as "Works on ARM:

Segger Microcontroller Systems

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Difference between JLink and ST-link

As a beginner I was wondering what the difference is between jlink and stlink. Both can step through the code and debug so why opt for JLink? From what I've seen setting up JLink even

J-Link To ST-Link Take your debugging to a new level.

Take you debugging to a new level and update your built in ST-Link debugger to Segger J-Link and open new possibilities like RTT Viewer and more.

ST-LINK/V2 in-circuit debugger/programmer for STM8 and STM32

Introduction The ST-LINK/V2 is an in-circuit debugger/programmer for the STM8 and STM32 microcontrollers. The single wire interface module (SWIM) and the JTAG/serial wire debugging

Pixttxa/J-ST-Link-PCB

A 6-pin female header can be soldered on the side to also support the nucleo ST-Link boards and it will still nicely fit on the J-Link Base, but not so nice on the ST-Link/V2.

ST-LINK vs J-LINK - What's the Difference?

□□ ST-LINK vs J-LINK - What's the Difference? If you've worked with STM32 or ARM-based microcontrollers, you've probably come across ST-LINK and J-LINK debuggers. At first glance, they ...

Can I use ST-Link programmer for non-ST chips?

Flashing an ST-Link to a J-Link will only work (and be legal) on either a Nucleo or Discovery board and only for use with the targeted MCU. Read the Segger license terms, they are

Would you recommend a Segger J-Link over ST-Link for a junior?

OTOH, j-link allows you the use of the free ozone debugger from segger which really is a blessing to use compared to GNU debug in any IDE. If you need a standalone debug instrument (most development

Converting ST link v2 to Jlink

Has anyone had any succes with converting a ST link v2 to a Jlink using the software that Segger provides? I have not had any success, even with using instructions they provided and was wondering

J-Link script files

J-Link script files In some situations, it is necessary to customize some actions performed by J-Link. In most cases, it is the connection sequence and/or

Using J-Link with the STM32 boards

OverviewConvert The St-Link On-Board Into A J-LinkThe Custom J-Link to St CableThe St 6-Pin SWD ConnectorThe J-Link 20-Pin JTAG/SWD ConnectorThe Target Detect StrapJumpersConclusionThe ST boards have a pair of jumpers, that need to be installed, for the programming signals to be connected from the 6-pin connector to the target processor.See more on [gnu-mcu-eclipse.github.io/flyriver](https://github.com/gnu-mcu-eclipse/ioflyriver)

Integrating ST-Link and J-Link Debuggers - Flyriver

Eclipse-based IDEs, such as those based on the GNU MCU Eclipse plugins, can be configured to work with both ST-Link and J-Link. For ST-Link, you might need to install specific plugins or configure the

J-Link Interface Description

J-Link will also work if this pin is not connected, but you may experience some limitations when debugging. TRST should be separate from the CPU Reset (pin

Using J-Link with the STM32 boards

Preferably the J-Link debug plug-in would be used, but, for costs reasons, ST did not provide the standard JTAG connector, so it is currently not possible to connect to these boards with

What is JTAG, JLINK, ULINK, ST-LINK? the difference?

J-Link is Germany Segger to introduce JTAG-based emulators. Simply put, it is a JTAG protocol conversion box, which is a small USB to JTAG conversion box,

Enabling SEGGER RTT Logging by Converting ST-Link

Discover the benefits and challenges of transitioning from ST-Link to J-Link for connecting STM32 microcontrollers with external devices. This

Can someone explain what JTag and JLink is please? I was asked

In the embedded software development world, JTAG is one of the leading interfaces for flashing firmware on boards and for debugging. J-Link is a device marketed by Segger, which uses JTAG to

STM32CubeProgrammer software description

Introduction STM32CubeProgrammer (STM32CubeProg) provides an all-in-one software tool to program STM32 devices in any environment: multi-OS, graphical user interface, or command line interface. It

ST-Link Vs Jlink

J-Link provides both JTAG and SWD hardware interfaces (and possibly others), but ST-Link only does SWD and SWIM At a hardware level both can be used to

Wiley Online Library

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Understanding the Differences: ST Link vs. JLink

Both of these tools serve a similar purpose, but they have their differences that can affect your project development. In this article, we will dive into the functionalities, features, and use cases of ST Link

Enabling SEGGER RTT Logging by Converting ST-Link to J-Link for

In this article, our aim is to address these difficulties and provide guidance on transitioning from ST-Link to J-Link for establishing connections between STM32 and other devices.

Contact Us

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