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Development Tools J-Link ARM Pro Overview



J-Link ARM Pro

J-Link ARM Pro is a refined version of the regular J-Link. It has an Ethernet interface in addition to the USB interface, as well as two additional LEDs which are used as hardware status indicators. It connects via Ethernet or USB to the Windows (2000/XP/Vista) PC host. J-Link ARM Pro is fully compatible with J-Link ARM and can be used "out-of-the-box". J-Link ARM Pro uses DHCP per default. The built-in webserver makes manual configuration easy and convenient. Ethernet allows using the emulator far away from the PC in a development or production environment; download and debugging speed is higher and Ethernet provides electrical isolation from the PC. All features of the regular J-Link ARM also apply to this product. [\[More...\]](#)

Features

- Fully compatible to [J-Link ARM](#)
- Ethernet interface
- USB 2.0 interface
- Any ARM 7/9/11, Cortex-M3 core supported, including thumb mode
- Additional LEDs for power and RESET indication
- Comes with web interface for easy TCP/IP configuration (built-in web server)
- [Serial Wire Debugger \(SWD\) supported](#)
- Automatic core recognition
- Maximum JTAG speed 12 MHz
- Download speed up to 720 Kbytes/second
- DCC speed up to 800 Kbytes/second (Measured with J-Link ARM Pro Rev. 1, ARM7 @ 50 MHz, 12MHz JTAG speed.)
- Seamless integration into the IAR Embedded Workbench IDE
- Powered through USB or power supply which comes with J-Link ARM Pro
- Support for adaptive clocking
- All JTAG signals can be monitored, target voltage can be measured
- Support for multiple devices
- Fully plug and play compatible
- Standard 20-pin JTAG connector
- Wide target voltage range: 1.2V - 3.3V, 5V tolerant
- USB and 20-pin ribbon cable included
- Memory viewer (J-Mem) included
- Comes with licenses for: [J-Link ARM RDI](#), [J-Link ARM Flash](#), [J-Link ARM FlashDL](#), [J-Link ARM GDB Server](#), [J-Flash ARM](#)
- Software Developer Kit (SDK) available
- Embedded Trace Buffer (ETB) support
- [Adapter for 5V JTAG target](#) available
- [14-pin JTAG adapter](#) available
- Galvanic isolation from host system via Ethernet
- Optical isolation adapter available
- Target power supply: J-Link can supply up to 300 mA to target with overload protection.
- **Coming soon:** firmware extensions (ARM11, X-Scale, Cortex R4 / A8 / A9), built-in GDB Server

- [Documentation download](#)
- [Subscribe to J-Link software notification](#)

Licensing

J-Link ARM Pro comes with licenses for all J-Link related SEGGER software products: [J-Link ARM FlashDL](#), [J-Link ARM Flash](#), [J-Link ARM RDI](#), [J-Flash ARM](#), [J-Link ARM GDB Server](#) providing the optimum debugging solution for professional developers. J-Link ARM Pro can be used with almost all ARM debuggers, enabling download to flash memory with an unlimited number of break-points when debugging programs located in flash memory of most popular ARM microcontrollers. It also comes with the license to use J-Flash ARM, SEGGER's popular flash programming software.

Why Pro?

There are many aspects which make the J-Link Pro very attractive to use:

- Price:** Buying a J-Link ARM Pro, which comes with licenses for all J-Link-related SEGGER software, will save you a lot of money because buying a J-Link ARM and all licenses separate is more expensive.
- Speed:** J-Link Pro via TCP/IP provides higher download speed than J-Link via USB.
- Usability:** J-Link Pro can be used "out-of-the-box". A built-in J-Link ARM GDB Server is planned to be implemented in the near future.
- Flexibility:** Due to the Ethernet interface, long distances between the development PC and the target system are possible. You can set a default gateway for J-Link Pro, so it is also possible to use it in large intranets.
- Security:** When using J-Link ARM Pro via Ethernet, galvanic isolation of the development PC and the target system is supported.
- Ready future use:** J-Link ARM Pro provides more memory for future firmware extensions (e.g. ARM11, X-Scale, Cortex R4 and Cortex A8).

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