J-32 Debug Probe

JTAG/SWD/ICSP Debugger/Programmer

Summary

The J-32 Debug Probe Debugger/Programmer provides affordable, fast and easy debugging and programming for Microchip's PIC32 and SAM MCU and SAM MPU products. It is fully integrated into Microchip's powerful MPLAB® X Integrated Development Environment and easy-to-use Integrated Programming Environment. Connecting existing hardware is simple as it keeps the Segger J-Link/J-Trace 20-pin debugging connector. A compact form factor and two mounting holes permit the J-32 Debug Probe to mount securely onto development or end-user equipment to support product testing and calibration. J-32 Debug Probe has all the necessary performance and features 32-bit MCU and MPU developers need.

The J-32 Debug Probe is fast and easy to use. This redesigned product features fast downloads from RAM to Flash memory. Run-time data collection is available with bi-directional target communication and built-in virtual COM port functionality which simplifies debugging and calibration. Future new product support will always be free with regular software updates. J-32 Debug Probe is a cost-effective solution to debugging and programming Microchip's 32-bit MCU and MPU products.

Advantages

Supports all Microchip 32-bit Products

- J-Link BASE compatible
- GDB server support
- Arm® 9x6, Cortex®-A, Cortex-M 32-bit and Thumb instruction set support
- PIC32 MIPS In-Circuit Serial Programming (ICSP)
- MIPS32, MIPS16, microMIPS instruction set support
- J-Link TCP/IP server included

Robust Debugging

- JTAG/SWD target voltage monitoring
- Auto-speed recognition
- All JTAG/SWD signals can be monitored
- Adaptive clocking support

Fast and Flexible

- Selectable JTAG speed up to 15 MHz
- Wide target voltage range: 1.2 to 5.0V
- Fully plug-and-play compatible

Simple to Use

- Fully integrated in MPLAB X IDE and IPE
- No external power supply needed, fully powered from micro USB 2.0 (high-speed)
- Uses standard SAM 20-pin JTAG/SWD connector

Cost Effective

- Same performance at a lower price than full-featured tools

Ease of maintenance and feature upgrades

- New device support available at www.segger.com/downloads/jlink

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Products Supported

The J-32 Debug Probe supports PIC32 and SAM MCU and SAM MPU products and firmware is continually being updated to add support for new devices. For the most current list of supported products, review the latest release notes located in MPLAB X IDE. New product support is released through Segger's website. Visit www.segger.com/downloads/jlink and download J-Link/J-32 software.

Host System Requirements

- Available USB 2.0 port
- Microsoft Windows® 7 or later, Mac OS X® and Linux® operating systems

Ordering Information

Part Number	Description	Availability
DV164232	J-32 Debug Probe This kit includes: One J-32 Debug Probe One micro USB cable One 10x2 100 mil cable	Now

Other Development Tools from Microchip

Part Number	Development Tools	Description
PG164100	MPLAB® Snap	Cost-effective programmer/debugger for PIC®, AVR®, SAM MCUs and dsPIC® Digital Signal Controllers
PG164140	MPLAB PICkit™ 4	Fast programmer/debugger and Programmer-To-Go for PIC, AVR and SAM MCUs and dsPIC Digital Signal Controllers
PG164045	MPLAB ICD 4	Full-featured programmer/debugger for PIC and SAM MCUs and dsPIC Digital Signal Controllers
AC164164	PIC-IoT WG Development Board	Simple and effective way to connect to the Google Cloud IoT Core
DM320104-BNDL	Amazon FreeRTOS Curiosity PIC32MZ EF Bundle	Develop small, low-powered edge devices that are easy to program, deploy, secure and maintain using Amazon FreeRTOS

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