Black Magic Probe

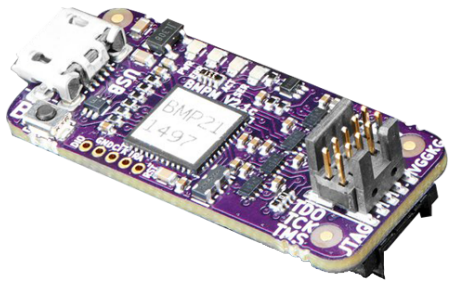
Product Overview

08-24-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

Adafruit Black Magic Probe is an in-application debugging tool for embedded microprocessors. The probe can see the goings-on "inside" an application running on an embedded microprocessor while it executes. The device can control and examine the state of the target microprocessor using a JTAG or Serial Wire Debugging (SWD) port and on-chip debug logic provided by the microprocessor. The probe connects to a host computer using a standard USB interface, and the user is able to control exactly what happens using the GNU source level debugging software, GDB.



Features

- GDB server port without the need of special PC side software
- TTL level serial interface
- SWD and JTAG support
- Supports 1.7V up to 5V targets
- Can provide 3.3V to the target (up to 100mA)
- Semi hosting support
- Works on Linux, Mac, and Windows
- Works with Eclipse and other integrated development environments
- Supports STM32, LPC11, LM3S - full support list
- DroneCode compatible

Specifications

- 150mm JTAG ribbon cable length
- ~145mm 0.1" pin header-compatible serial cable length
- 35mmx15mmx12mm / 1.4x0.6x0.5" product dimensions
- 2.7g / 0.1oz product weight

The information contained in this document should be used as a guideline only.

Related Products

STM32 32-Bit Arm® Cortex®-M MCUs:

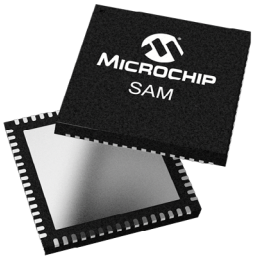
STMicroelectronics STM32 32-Bit ARM® Cortex®-M MCUs are based on the Arm Cortex-M processor and designed to offer new degrees of freedom to MCU users. The MCUs offer a 32-bit product range that combines very high performance, real-time capabilities, digital signal processing, and low-power, low-voltage operation.

SAM D20 ARM® Cortex®-M0+ Microcontroller:

Microchip's SAM D20 ARM® Cortex®-M0+ Microcontroller (MCU) series builds on decades of innovation and experience in embedded Flash microcontroller technology. It not only sets a new benchmark for flexibility and ease-of-use but also combines the performance and energy efficiency of an ARM Cortex-M0+ based MCU with an optimized architecture and peripheral set.

SAM D21 Arm® Cortex®-M0+ Microcontrollers:

Microchip Technology SAM D21 Arm® Cortex®-M0+ Microcontrollers (MCUs) are low-power MCUs that range from 32- to 64-pins with up to 256KB Flash and 32KB of SRAM. Features include hex compatible code, identical linear address map, and pin compatible migration paths between all devices in the product series.



Mouser Part Number(s)

485-3839

To learn more, visit https://www.mouser.com/new/adafruit/adafruit-black-magic-probe/

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