

Programming the Compute Module Using the WDLabs Adapter

Applies to:

- Media Stick for Raspberry Pi
- 2.5" SATA to Raspberry Pi Adapter Board
- WD Smart Cable Module

Features:

- The USB Micro B port functions as the power port during normal use. When in programming mode the port is used to program the Compute Module (CM) using a computer
- The pushbutton has different modes:
 - One click On, one click Off, during normal use. A lit LED indicates the unit is powered on
 - Push and hold until the LED blinks rapidly (approx. 7 seconds) to put the unit into CM programming mode. Programming requires connection to a separate computer with the CM driver loaded (see below)
 - After programming, the adapter is restored to normal use by turning the device off and waiting 10 seconds. Then power it back on.

Programming Instructions:

1. Install Raspberry Pi Compute Module (not provided) into the WDLabs adapter. Do not connect anything to the two USB2.0 ports on the Media Stick, WD Smart Cable or SATA Adapter at this time.
2. Connect the USB Micro B port on the WDLabs adapter to a host computer (For best results use a powered USB hub and a USB cable that is 18-inches or less to ensure sufficient current). Do not press the power button on the device yet. Follow the instructions for flashing the Raspberry Pi Compute Module eMMC at the link below.

NOTE: When you reach the steps in the link below about plugging in the Compute Module IO Board, do not do this since it is not required. Instead hold the power button down on the WDLabs adapter until the LED flashes rapidly (about 7 sec). Release button. (The Compute Module should then be discovered by the host machine and can be programmed.)

<https://www.raspberrypi.org/documentation/hardware/computemodule/cm-emmc-flashing.md>

Tips:

- Files can be transferred from the host computer to the CM using a file manager/explorer on the host computer. However, the CM must be formatted first. For Windows PCs, use the SDFormatter tool with the "Format Type" set to 'FULL (OverWrite)' and the "Format Size Adjustment" set to 'On'.
https://www.sdcard.org/downloads/formatter_4/
 - If transferring a software image from the host computer to the CM, the CM doesn't need to be formatted first. For image transfers from a computer, use the win32diskimager.
<https://sourceforge.net/projects/win32diskimager/>
3. When you have completed programming, safely eject (unmount) the device from your host machine and power off the WDLabs adapter by pressing the pushbutton.
 4. Disconnect the WDLabs Adapter from the computer, USB Hub, and any other power source. Wait 10 seconds.
 5. Connect 5V USB power as well as any other USB peripherals.
 6. Now, just press the WDLabs adapter pushbutton to power it on and it is ready for use!