MSC Ramdisk Example

Device_msc_ramdisk_example

Overview

The USB MSC ramdisk application is a simple demonstration program that uses the KSDK software. It is enumerated as a u-disk and users can read and write the udisk as normal u-disk .

System Requirement

Hardware requirements

- J-Link ARM
- P&E Micro Multi-link universal
- Mini/micro USB cable
- USB A to micro AB cable
- Hardware (tower/base board, ...) for specific device
- Personal Computer(PC)

Software requirements

- The project files, for lite version example, the path is: <SDK_Install>/boards/<board>/usb/usb_device_msc_ramdisk_lite/<RTOS>/<toolchain>. For non-lite version example, the path is: <SDK_Install>/boards/<board>/usb/usb_device_msc_ramdisk/<RTOS>/<toolchain>.

> Note
>
> The RTOS is BM, FreeRTOS.

Getting Started

Hardware Settings

Prepare the example

1. Download the program to the target board.
2. Power off the target board. And then power on again.
3. Connect a USB cable between the PC and the USB device port of the board.

> Note
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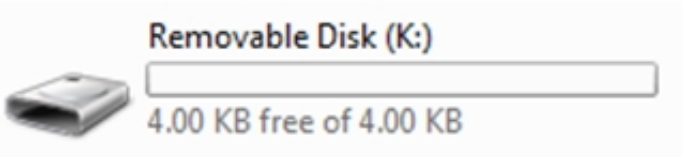
> For detailed instructions, see the appropriate board User's Guide.

Run the example

1. Plug-in the msd disk device which is running usb_device_msc_ramdisk twrk22f120m example into PC. You will see a USB Mass Storage Device enumerated in Device Manager.
2. If you enable the ram disk function, the windows will prompt you to format the u disk.

When the format is completed, the computer will display the capacity of 4k removable disk.



Note: Mac system 10.9 default will create .fseventsd ,.Trashes folder and some other files if we format the disk on MAC. The total files size is about 8K. We need increase the RAM size at least to 32K if USB mass storage example running on MAC. Please change the MACRO TOTAL_LOGICAL_ADDRESS_BLOCKS_NORMAL in disk.h from 48 to 64. if we use Mac system 10.11 EI Captain to format the disk, the least ram size should be 2.1MByte, or else the mac will show "not enough space for allocate" and can't format the disk.