

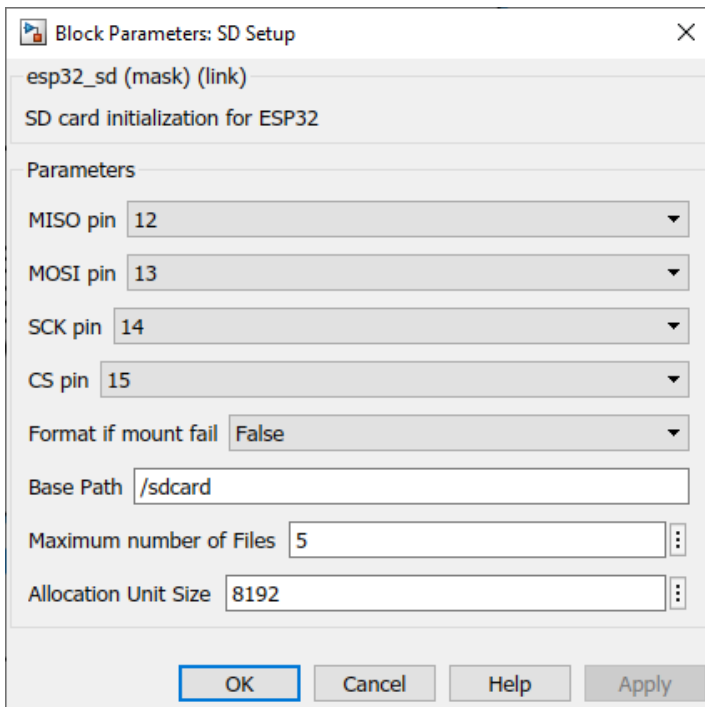
## SD Card Setup

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How this block appears in a Simulink model?

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What can be configured?



Configuration Parameter	Selectable Option/Value	Description
Chip select pin (CS)	0 to 33	Select pin for CS
Clock pin (SCLK)	0 to 33	Select pin for SCLK
Master read (MISO)	0 to 33	Select pin for MISO
Master write (MOSI)	0 to 33	Select pin for MOSI
Format if mount fail	True--False	If FAT partition cannot be mounted, and this parameter is true, create partition table and format the filesystem.
Base path		The block registers given FAT drive in VFS, at specified base path.
Maximum number of files		maximum number of files which can be open at the same time
Allocation unit size		If 'format_if_mount_failed' is set, and mount fails, format the card with given allocation unit size. Must be a power of 2, between sector size and 128 * sector size. For SD cards, sector size is always 512 bytes.

When to use this block?

This block can be used to initialize the SD card connected to ESP32 device before reading and writing files to it.

## How does this block work?

ESP-IDF uses the FatFs library to work with FAT filesystems. FatFs resides in the 'fatfs' component.

## Demo

[SD Card demo](#)

Previous : [Wireless Communication Block \(HIL\)](#)

Next : [SD Card Read Block](#)

### Files

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appearance_setup.PNG	20.6 KB	20 Oct 2020	Vasitha Tilakumara (၇၈ိ)
mask_setup.PNG	25.2 KB	20 Oct 2020	Vasitha Tilakumara (၇၈ိ)