

Partitions

Partition table

A file called **partitions.csv** is located in the root of the esp-idf project folder. With content similar to:

#	Name,	Type,	SubType,	Offset,	Size,	Flags
nvs,	data,	nvs,	0x9000,	0x4000,		
otadata,	data,	ota,	0xd000,	0x2000,		
phy_init,	data,	phy,	0xf000,	0x1000,		
ota_0,	app,	ota_0,	0x10000,	0x120000,		
ota_1,	app,	ota_1,	0x130000,	0x120000,		
config,	data,	phy,	0x250000,	0x4000,		
logging,	data,	phy,	0x254000,	0x145000,		

Updating a partition table

Edit the contents of the partitions.csv file and run the following commands:

```
idf.py menuconfig
idf.py partition-table
idf.py build
idf.py -p /dev/ttyUSB0 flash
idf.py -p /dev/ttyUSB0 partition-table-flash
```

After that do a full flash or flash the individual partitions to their new locations

```
idf.py -p /dev/ttyUSB0 flash
```

Erase a partition area

```
esptool_py/esptool/esptool.py --port /dev/ttyUSB0 erase_region 0x254000
0x145000
```

Full Flash

```
idf.py -p /dev/ttyACM0 flash
python -m esptool --chip esp32c3 -p /dev/ttyACM0 -b 460800 --before
default_reset --after hard_reset write_flash --flash_mode dio --flash_size
4MB --flash_freq 80m 0x0 build/bootloader/bootloader.bin 0x8000
build/partition_table/partition-table.bin 0xd000 build/ota_data_initial.bin
0x10000 build/LCR-Meter.bin 0x250000 default.config
```

Write Application to partition

```
python -m esptool --chip esp32c3 -p /dev/ttyACM0 -b 460800 --before
default_reset --after hard_reset write_flash --flash_mode dio --flash_size
4MB --flash_freq 80m 0x10000 build/ESR-Meter.bin
```

Read/Write config partition

Write Config to partition

```
esptool.py --port /dev/ttyACM0 write_flash --flash_mode qio 0x250000
default.config
```

Read CONFIG from partition

```
esptool.py --port /dev/ttyACM0 -b 460800 --before default_reset --chip
esp32c3 read_flash 0x250000 4096 downloaded.config
```

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