

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
```

From:

<https://wiki.oscardegroot.nl/> - HomeWiki

Permanent link:

<https://wiki.oscardegroot.nl/doku.php?id=esp:esp32:esp-idf-info:partitions&rev=1739006050>

Last update: **2025/02/08 09:14**

