

Flash Commands

Core tools

Esp-idf commands can be executed using:

- **python**, Located in: `/esp32/idf-tools/python_env/idf5.2_py3.11_env/bin/python`
- **idf.py**, Located in: `/esp32/esp-idf/tools/idf.py`
- **esptool.py**, Located in: `/esp32/idf-tools/python_env/idf5.2_py3.11_env/bin/esptool.py`

idf.py can be invoked in different ways:

```
$ idf.py <parameters>
$ python -m idf <parameters>
```

esptool.py can be invoked in different ways:

```
$ esptool <parameters>
$ python -m esptool <parameters>
```

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
```

Flash Application 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
python ../../esp-idf/components/esptool_py/esptool/esptool.py -p
/dev/ttyUSB0 -b 460800 --before default_reset --after hard_reset --chip
esp32 write_flash --flash_mode dio --flash_size detect --flash_freq 40m
0x00130000 build/thermometer.bin
```

Flash 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:flash-commands&rev=1788009260>

Last update: **2026/08/29 13:14**

