

Flash Non-FOTA Firmwares

This only applies to NON-FOTA firmware versions. In order to flash ESP8266 the GPIO0 should be connected to GND. This is D3 on Wemos D1 Mini Pro.

ESP-OPEN-SDK Firmwares

First initial flash

```
# Full erase first
esptool.py --port /dev/ttyUSB0 --baud 115200 erase_flash

# Flash esp-open-sdk/sdk/bin/esp_init_data_default.bin at 0x3fc000
esptool.py --port /dev/ttyUSB0 --baud 115200 write_flash
    --flash_mode dio --flash_size 32m
    0x000000 firmware/0x000000.bin
    0x100000 firmware/0x100000.bin
    0x3fc000 /home/oscar/esp8266/esp-open-
sdk/sdk/bin/esp_init_data_default.bin
```

Subsequential flash

```
esptool.py --port /dev/ttyUSB0 --baud 115200 write_flash
    --flash_mode qio --flash_size 32m
    0x000000 firmware/0x000000.bin
    0x100000 firmware/0x100000.bin
```

EASY ESP Firmware

```
sudo python esptool/esptool.py erase_flash
sudo python esptool/esptool.py -p /dev/ttyUSB0 -b 460800 write_flash -fm qio
0x000000 0x000000.bin
```

NODEMCU Firmware

Finally got the Wemos D1 mini pro with 16 MByte flash.

```
esptool.py erase_flash
```

```
esptool.py -b 460800 write_flash -fm qio 0x00000 bin/0x00000.bin 0x10000  
bin/0x10000.bin
```

And finally it was resolved with dev version of NodeMcu prepared in <https://nodemcu-build.com/>

My best result is 17 modules in the BIN. Many was unsuccessful I reported result in GitHub (with modules) - <https://github.com/nodemcu/nodemcu-firmware/pull/1529>

Also their own fixed esptool used - <https://github.com/nodemcu/nodemcu-firmware/tree/dev/tools>

LINKS

- <https://github.com/nodemcu/nodemcu-firmware/tree/dev>
- <http://nodemcu.readthedocs.io/en/dev/en/>
- <https://github.com/nodemcu/nodemcu-firmware/pull/1529>
- <https://nodemcu-build.com/stats.php>
- <http://tiestvangool.ghost.io/2016/08/13/flash-nodemcu-esp8266/>
- <http://www.letscontrolit.com/wiki/index.php/ESPEasy#Stable>

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