

Download/unzip Parallax-ESP and optional FSIMAGE.

Open command prompt, connect the wx module, then run esptool using the appropriate command for the wifi module flash size. (Currently 4MB in stock at Parallax, at time of writing, 2018.Apr.).

Adjust the com port setting as required!

Tip! If you don't need (or know about) fsimage, just remove the appropriate bit from the command:

either

```
0x100000 -cf fsimage.bin
```

or

```
0x100000 fsimage.bin
```

### (WINDOWS esptool.exe)

```
./esptool -cd none -cb 921600 -cp COM7 -bz 2M -bf 80 -bm qio -ca 0x00000 -cf boot_v1.6.bin  
-ca 0x01000 -cf httpd.user1.bin -ca 0x7e000 -cf blank.bin -ca 0x7f000 -cf blank.bin -ca  
0x100000 -cf fsimage.bin -ca 0x3FC000 -cf esp_init_data_default.bin -ca 0x3fd000 -cf  
blank.bin -ca 0x3fe000 -cf blank.bin
```

### (PYTHON esptool)

#### 1- ERASE entire flash memory

```
python -m esptool --baud 921600 --port com7 --before no_reset --after no_reset  
erase_flash
```

#### 2. OPTIONAL- To read the flash size and auto-determine which programming command is required

```
python -m esptool --baud 921600 --port com7 --before no_reset --after  
no_reset flash_id
```

#### 3. PROGRAM FLASH according to flash size

##### a) 2MB VERSION

```
python -m esptool --baud 921600 --port com7 --before no_reset --after  
no_reset write_flash 0x00000 boot_v1.6.bin 0x01000 httpd.user1.bin  
0x100000 fsimage.bin 0x1FC000 esp_init_data_default.bin
```

##### b) 4MB VERSION

```
python -m esptool --baud 921600 --port com7 --before no_reset --after  
no_reset write_flash 0x00000 boot_v1.6.bin 0x01000 httpd.user1.bin  
0x100000 fsimage.bin 0x3FC000 esp_init_data_default.bin
```