

Unit EXT.IO

| Example

Every 0.2 seconds, change the pin state so that the LED light is off



```

from m5stack import *
from m5ui import *
from uiflow import *
import time
import unit

setScreenColor(0x222222)
ext_io_0 = unit.get(unit.EXT_IO, unit.PORTA)

ext_io_0.setPortMode(ext_io_0.ALL_OUTPUT)
while True:
    ext_io_0.digitWrite(1,0)
    wait(0.2)
    ext_io_0.digitWrite(2,0)
    wait(0.2)
    ext_io_0.digitWrite(3,0)
    wait(0.2)
    ext_io_0.digitWrite(4,0)
    wait(0.2)
    ext_io_0.digitWrite(1,1)
    wait(0.2)
    ext_io_0.digitWrite(2,1)
    wait(0.2)
    ext_io_0.digitWrite(3,1)
    wait(0.2)
    ext_io_0.digitWrite(4,1)
    wait(0.2)
    wait_ms(2)

```

API

 ext_io_0 ▼ digitRead Port

```
print(ext_io_0.digitReadPort())
```

- Read all pin status

 ext_io_0 ▼ digitRead Pin 0 ▼

```
print(ext_io_0.digitRead(0))
```

- Reads the specified pin state

 ext_io_0 ▼ digitWrite Pin 0 ▼ low ▼

```
ext_io_0.digitWrite(0,0)
```

- Pin state is controlled separately

ext_io_0 ▾ digitWrite Port 0xff

```
ext_io_0.digitWritePort(0x68)
```

- Control pin state, each pin corresponds to 1 bit

ext_io_0 ▾ set pin 0 ▾ mode INPUT ▾

```
ext_io_0.setPinMode(0, ext_io_0.INPUT)
```

- Set the input or output separately

ext_io_0 ▾ set mode ALL_INPUT ▾

```
ext_io_0.setPortMode(ext_io_0.ALL_INPUT)
```

- All pins are set to input or output mode