



# MicroPython - Communication série



[Mise à jour le : 4/6/2023] **En cours de rédaction**

- **Ressources**

- [MicroPython.org](https://micropython.org/)
- [MicroPython documentation](#)
- [classe UART - bus de communication série duplex](#)
- [IDE Thonny](#)

## 1. Présentation

## 2 Communication synchrone

## 3. Communication asynchrone

### 3.1 Bus I2C

#### Outils

Scanner I2C

[scan.py](#)

```
# -----  
-----  
# Titre : Scanner I2C  
# Source : adafruit  
# Langage : CircuitPython  
# Circuit : Raspberry Pi Pico  
#  
# Remarques  
# Si le bus I2C semble bloqué, utiliser le code si dessous dans la  
# console  
# >>> import busio
```

```
# >>> busio.I2C().unlock()
# -----
-----
import time
import board
import busio

i2c_0 = busio.I2C(board.GP9, board.GP8)  # Accès I2C0 sur le Grove
Shield Pi Pico
i2c_1 = busio.I2C(board.GP7, board.GP6)  # Accès I2C1

while not i2c_0.try_lock():
    pass

while not i2c_1.try_lock():
    pass

try:
    while True:
        print(
            "Adresses:",
            [hex(device_address_0) for device_address_0 in
i2c_0.scan()], " sur I2C0",
            [hex(device_address_1) for device_address_1 in
i2c_1.scan()], " sur I2C1",
            )
        time.sleep(2)

finally: # unlock the i2c bus when ctrl-c'ing out of the loop
    i2c_0.unlock()
    i2c_1.unlock()
```

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