

ESP32 Max7219 horloge

horloge001.ino

```
#include <WiFi.h>
#include <NTPClient.h>
#include <WiFiUdp.h>
#include <MD_Parola.h>
#include <MD_MAX72xx.h>
#include <SPI.h>

#define HARDWARE_TYPE MD_MAX72XX::FC16_HW
// #define HARDWARE_TYPE MD_MAX72XX::GENERIC_H

#define MAX_DEVICES 4
#define CLK_PIN 18
#define DATA_PIN 23
#define CS_PIN 5
MD_Parola Display = MD_Parola(HARDWARE_TYPE, DATA_PIN, CLK_PIN, CS_PIN,
MAX_DEVICES);

WiFiUDP ntpUDP;
NTPClient timeClient(ntpUDP);

const char* ssid = "-----"; // ssid et mdp à Valider
const char* password = "-----";

String Time, hour, minute;
String Formatted_date;
long currentMillis = 0;
long previousMillis = 0;
int interval = 1000;

void setup() {
  Serial.begin(115200);
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print("Connecting.");
  }
  Serial.println("");
  Serial.println("WiFi connected.");

  timeClient.begin();
  timeClient.setTimeOffset(7200); // 7200 = 2*60*60 pour le decalage gmt
  de 2H en Ete ....

  Display.begin();
```

```
Display.setIntensity(0);
Display.displayClear();

}

void loop()
{
    obtainTime();
}

void obtainTime() {
    while(!timeClient.update()) {
        timeClient.forceUpdate();
    }

    currentMillis = millis();

    if (currentMillis - previousMillis > interval) {
        previousMillis = millis();

        Formatted_date = timeClient.getFormattedDate();
        Serial.println(Formatted_date);

        hour = Formatted_date.substring(11, 13);
        minute = Formatted_date.substring(14, 16);

        Time = hour + ":" + minute;
        Serial.println(Time);
        Display.setTextAlignment(PA_CENTER);
        Display.print(Time);

    }
}
```

Librairies à installer

NTP client

ntpclient-master.zip

MD parola

“MD_Parola” à installer dans l'IDE arduino

md_parola-main.zip

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