[Micropython]TPYBoard v10x 从网络获取时间

**4.1.实验目的：**

* 学习如何使用ESP8266从网络获取时间

**4.2.所需原器件：**

* TPYBoard v10X开发板 1块
* TPYBoard v202开发板1块
* micro USB数据线 1条
* 杜邦线 3根

**4.3.实验原理：**

1. 连接ESP8266

TPYBoard v10x的针脚与TPYBoard v202的针脚对应关系如下:

TXD X2

RXD X1

GND GND

2. TPYBoard v10x的main.py内容如下

from pyb import UART

import time

u2=UART(4,115200)

while True:

s=u2.readline()[0:8].decode('utf-8')

time.sleep\_ms(500)

print('当前时间：',s)

3. TPYBoard v202的main.py内容如下

import network

from machine import Pin

import socket

import urllib

import time

import urequests as requests

import json

from machine import UART

u2=UART(0,115200)

def do\_connect():

sta\_if = network.WLAN(network.STA\_IF)

p2 = Pin(2, Pin.OUT)

sta\_if.active(False)

if not sta\_if.isconnected():

p2.value(0)

print('connecting to network...')

sta\_if.active(True)

sta\_if.connect('TurnipSmart', 'turnip2016')

while not sta\_if.isconnected():

pass

if sta\_if.isconnected():

print('connect success')

p2.value(1)

print('network config:', sta\_if.ifconfig())

def http\_get(url):

res=requests.get(url).text

j=json.loads(res)

list=j['sysTime2'].split()[1]

print (list)

do\_connect()

while True:

http\_get('http://quan.suning.com/getSysTime.do')

time.sleep\_ms(500)

