1. **ESP32S 2.4G单频的网络 AT固件配置**

## 2.乐鑫AT指令

## <https://docs.espressif.com/projects/esp-at/zh_CN/latest/esp32/AT_Command_Examples/index.html>

## TCP/UDP/MQTT通讯测试 OK

## <https://docs.ai-thinker.com/esp8266/examples/at_demo>

## IO17—TXD 配置指令串口 MCU-RXD

## IO16—RXD 配置指令串口 MCU-TXD

## 

## AT+RESTORE

## AT+CWMODE=1

## AT+CWJAP="shian","shian623625"

## AT+MQTTUSERCFG=0,2,"NULL","NULL","NULL",0,0,""

## AT+MQTTCLIENTID=0,"CO2"

## AT+MQTTUSERNAME=0,"SA-CO2.azure-devices.net/CO2/?api-version=2018-06-30"

## AT+MQTTPASSWORD=0,"SharedAccessSignature sr=SA-CO2.azure-devices.net%2Fdevices%2FCO2&sig=tlp8qzk9W0OC%2FHIt2vY0nOYzXY7e5Zw4zWh4Axw%2F6q8%3D&se=1970883109"

## AT+MQTTCONN=0,"SA-CO2.azure-devices.net",8883,1

## AT+MQTTSUB=0,"devices/CO2/messages/devicebound/#",1

## AT+MQTTPUB=0,"devices/CO2/messages/events/","hello",1,0

## 注释：

## AT+RESTORE（深度复位，清除参数）

## AT+CWMODE=1（模块进入STA模式）

## AT+CWJAP=“ID”,“密码”（路由器名称及密码）

## AT+MQTTUSERCFG=0,2,“NULL”,“NULL”,“NULL”,0,0,""（参数2表示使用TLS)

## AT+MQTTCLIENTID=0,“设备名称”

## AT+MQTTUSERNAME=0,“IOT中心完整名称/设备名称/?api-version=2018-06-30”

## AT+MQTTPASSWORD=0,“生成的SAS密钥”

## AT+MQTTCONN=0,“IOT中心完整名称”,8883,1

## AT+MQTTSUB=0,“devices/设备名称/messages/devicebound/#”,1

## AT+MQTTPUB=0,“devices/设备名称/messages/events/”,“想发送的数据”,1,0

## 2.MS AZURE Power BI Embedded

**ESP8266 MQTT固件透传连接微软IOT物联网平台**

[**https://blog.csdn.net/Boantong\_/article/details/104836750?spm=1001.2014.3001.5501**](https://blog.csdn.net/Boantong_/article/details/104836750?spm=1001.2014.3001.5501)

**个人账户：**[**shiantech@hotmail.com**](mailto:shiantech@hotmail.com)

**密码：sa623625**

**公司账户：****在家里本子上**

**密码：在家里本子上**

**组织邮箱才能使用power bi embedded**

**注册组织账户. Onmicrosoft域名通用 active激活状态 付费：**

**M365->power bi ->Azure->iot hub->web**

**测试：**

**User: loong**

**Email: loong@oblonka.onmicrosoft.com**

**公司的网页：荷兰**

[**http://www.tcftechs.com/data-logger/**](http://www.tcftechs.com/data-logger/)

[**https://www.microsoft.com/en-us/microsoft-365/enterprise/compare-office-365-plans?rtc=1**](https://www.microsoft.com/en-us/microsoft-365/enterprise/compare-office-365-plans?rtc=1)

**M365注册**

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