

# YNH-MN316-AT指令示例

## 1. 文档说明

- ✓ 该文档展示了核心板通过TCP/UDP/MQTT协议连接服务器（野牛服务器、OneNET、阿里云）并实现数据传输，作为串口发送AT指令调试阶段的参考。不同平台账户配置信息不同，需更改指令中云平台（OneNET、阿里云）的配置信息，实现与云平台的数据通信。

版本：2024年5月8日 V1.0

## 2. 连接信息

### ✓ OneNET

设备名称：EC800816

产品id：WtF1aQE659

token（需要用工具计算）：version=2018-10-31&res=products%2FWtF1aQE659%2Fdevices%2FEC800816&et=2537256630&method=md5&sign=VJfBWuWM43wPgj%2BH7B0G8w%3D%3D

### 阿里云

clientId：

k0jupm3hCdL.ML307842|securemode=2,signmethod=hmacsha256,timestamp=1710133664162|

username：ML307842&k0jupm3hCdL

passwd：2d865a7a861e70f32c45c6bedc0f14ad1e20a706b952d67f7077bad390520170

mqttHostUrl：iot-06z00f8bo0pxsix.mqtt.iothub.aliyuncs.com

port：1883

## 3. 基础通用命令

### ✓ //获取信号质量

AT+CSQ

//获取注网状态，0,1表示注网成功

AT+CEREG?

//获取卡号

AT+CIMI

//复位指令

AT+NRB

## 4. UDP

✓ //创建UDP socket

AT+NSOCR="DGRAM",17,2334,1

+NSOCR:0

OK

//发送UDP数据，需要等+NSOST URC

AT+NSOST=0,123.207.210.43,9999,10,30313233343536373839

+NSOST:0,10

OK

+NSONMI:0,10

//读取接收的数据，需要等+NSORF URC

AT+NSORF=0,30

+NSORF:0,123.207.210.43,9999,10,30313233343536373839,0

OK

//关闭socket

AT+NSOCL=0

OK

+NSOCLI:0

## 5. TCP



//创建TCP socket

AT+NSOCR="STREAM",6,23341,1

+NSOCR:0

OK

//连接TCP服务器，需要等CONNECT OK URC

AT+NSOCO=0,123.207.210.43,8888

OK

CONNECT OK

//发送数据命令，需要等+NSOSD URC

AT+NSOSD=0,17,48656C6C6F2059654E697520494F540D0A

+NSOSD:0,17

OK

+NSONMI:0,17

//读取接受到的数据，需要等+NSORF URC

AT+NSORF=0,17

+NSORF:0,123.207.210.43,8888,17,48656C6C6F2059654E697520494F540D0A,0

OK

//关闭socket

AT+NSOCL=0

OK

+NSOCLI:0

## 6. MQTT-野牛服务器



//配置连接参数

AT+MQTTCFG="123.207.210.43",1883,"clientExample",60,"","",1,0

OK

//连接 MQTT 服务器，需要等+MQTTOPEN:OK URC

AT+MQTTOPEN=0,0,0,0,0,"",""

OK

+MQTTOPEN:OK

//订阅主题，需要等+MQTTSUBACK URC

AT+MQTTSUB="topic/example\_8808",0

OK

+MQTTSUBACK:1,0,topic/example\_8808

+MQTTPUBLISH:0,0,1,0,topic/example\_8808,6,001bye

//发布消息，需要等+MQTTPUBLISH URC

AT+MQTTPUB="topic/example\_8808",0,0,0,0,"hello yeniu!I am MN316"

OK

+MQTTPUBLISH:0,0,0,0,topic/example\_8808,22,hello yeniu!I am MN316

//断开连接

AT+MQTTDISC

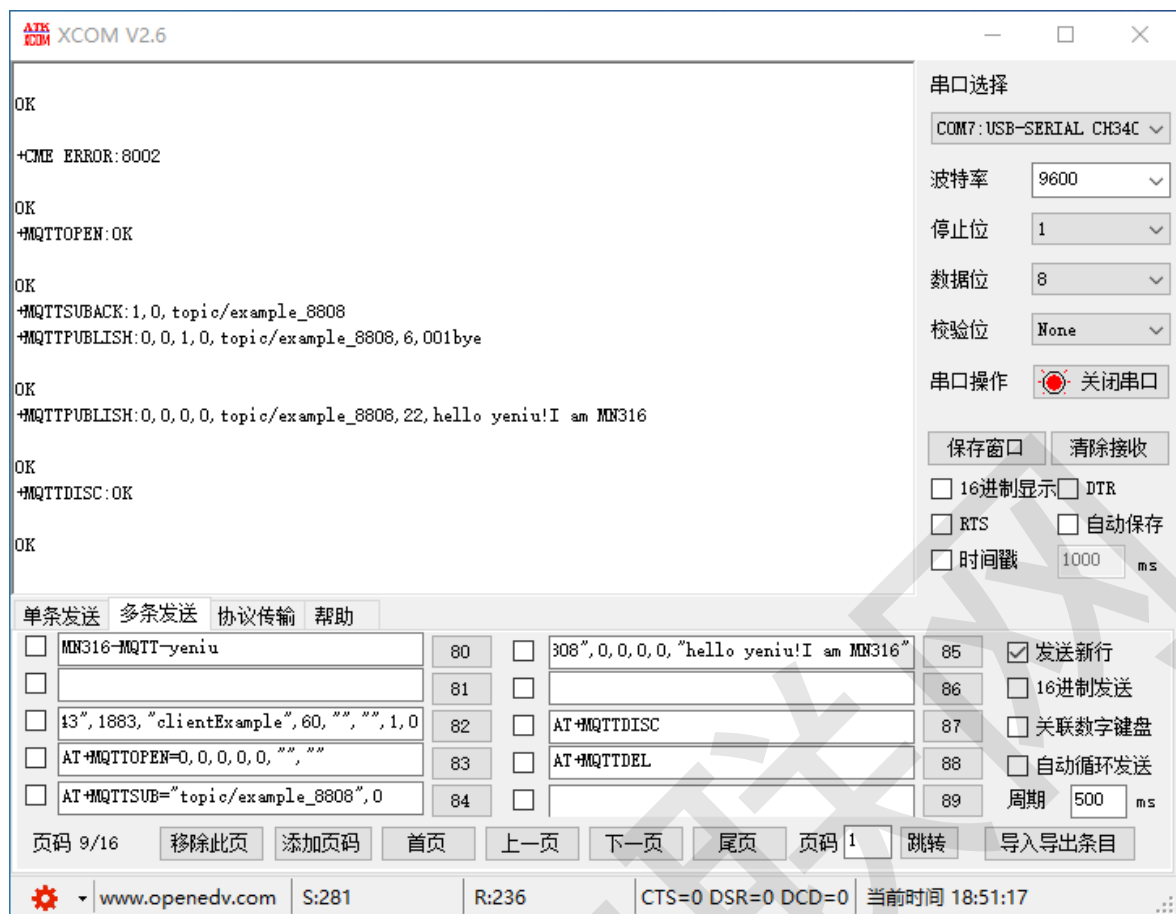
OK

+MQTTDISC:OK

//删除 MQTT 客户端，并释放资源

AT+MQTTDEL

OK



## 7. OneNET

- ✓ //配置连接参数（只能配置一次，多次配置会报错，需要复位或者断开连接才能再次配置。只校验数据格式，不校验参数正确性）

```
AT+MQTTTCFG="183.230.40.96",1883,"EC800816",60,"WtF1aQE659","version=2018-10-31&res=products%2FWtF1aQE659%2Fdevices%2FEC800816&et=2537256630&method=md5&sign=VJfBWuWM43wPgj%2BH7B0G8w%3D%3D",1,0
```

OK

//连接 MQTT 服务器，需要等+MQTTOPEN:OK URC

```
AT+MQTTOPEN=1,1,0,0,0,"",""
```

OK

+MQTTOPEN:OK

//订阅主题，需要等+MQTTSUBACK URC

```
AT+MQTTSUB="$sys/WtF1aQE659/EC800816/thing/property/post/reply",0
```

OK

```
+MQTTSUBACK:1,0,$sys/WtF1aQE659/EC800816/thing/property/post/reply
```

AT+MQTTSUB="\$sys/WtF1aQE659/EC800816/thing/property/set",0

OK

+MQTTSUBACK:2,0,\$sys/WtF1aQE659/EC800816/thing/property/post/reply

//发布消息，需要等+MQTTPUBLISH URC

//发送json格式有点问题，修改为十六进制发送，将json转为16进制，去掉最外层双引号。

133是字符长度（16进制字符串长度除以2）

原始数据：{"id":"123","version":"1.0","params":{"CurrentTemperature":{"value":11.3},"LightLux":{"value":1000.3},"SoilMoisture":{"value":51.4}}}

转为16进制：

7b226964223a22313233222c22766572736966e223a22312e30222c22706172616d73223a7b2243757272656e7454656d7065726174757265223a7b2276616c7565223a31312e337d2c224c696768744c7578223a7b2276616c7565223a313030302e337d2c22536f696c4d6f697374757265223a7b2276616c7565223a35312e347d7d7d

AT+MQTTPUB="\$sys/WtF1aQE659/EC800816/thing/property/post",0,0,0,133,7b226964223a22313233222c22766572736966e223a22312e30222c22706172616d73223a7b2243757272656e7454656d7065726174757265223a7b2276616c7565223a31312e337d2c224c696768744c7578223a7b2276616c7565223a313030302e337d2c22536f696c4d6f697374757265223a7b2276616c7565223a35312e347d7d7d

OK

+MQTTPUBLISH:0,0,0,0,\$sys/WtF1aQE659/EC800816/thing/property/post/reply,39,{"id":"123","code":200,"msg":"success"}

//断开连接

AT+MQTTDISC

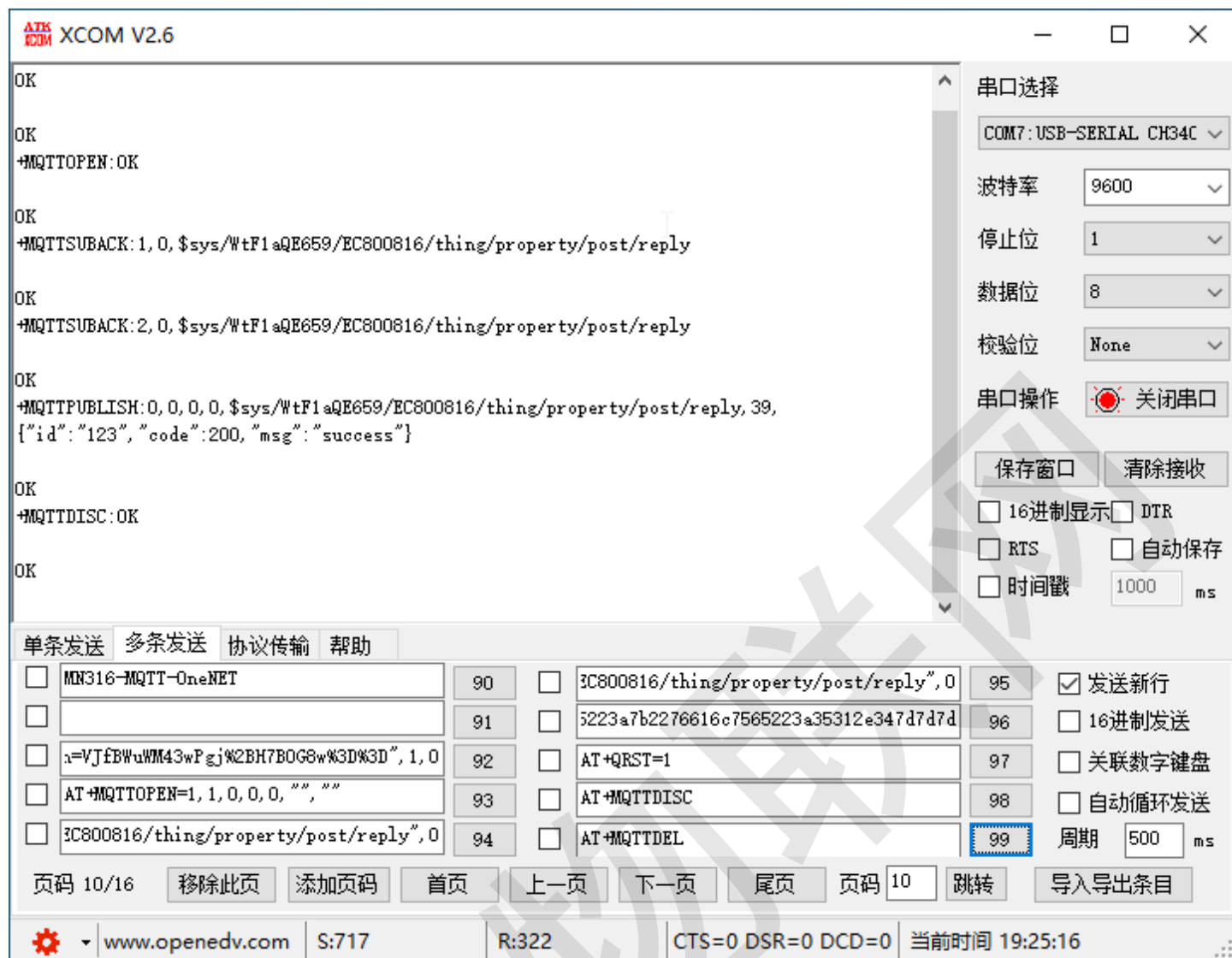
OK

+MQTTDISC:OK

//删除 MQTT 客户端，并释放资源

AT+MQTTDEL

OK



## 8. 阿里云

- ✓ //配置连接参数（只能配置一次，多次配置会报错，需要复位或者断开连接才能再次配置。只校验数据格式，不校验参数正确性）

```
AT+MQTTTCFG="iot-06z00f8bo0pxsix.mqtt.iothub.aliyuncs.com",1883,"k0jupm3hCdL.ML307842|securemode=2,signmethod=hmacsha256,timestamp=1710133664162|",60,"ML307842&k0jupm3hCdL","2d865a7a861e70f32c45c6bedc0f14ad1e20a706b952d67f7077bad390520170",1,0
OK
```

//连接 MQTT 服务器，需要等+MQTTOPEN:OK URC

```
AT+MQTTOPEN=1,1,0,0,0
OK
+MQTTOPEN:OK
```

//订阅主题，需要等+MQTTSUBACK URC

AT+MQTTSUB="/sys/k0jupm3hCdL/ML307842/thing/event/property/post\_reply",1

OK

+MQTTSUBACK:1,1,/sys/k0jupm3hCdL/ML307842/thing/event/property/post\_reply

//发布消息，需要等+MQTTPUBLISH URC

AT+MQTTPUB="/sys/k0jupm3hCdL/ML307842/thing/event/property/post",0,0,0,0,"

{params:{CurrentTemperature:51.8,RelativeHumidity:37,LightLuxValue:56.3}}"

OK

+MQTTPUBLISH:0,0,0,0,/sys/k0jupm3hCdL/ML307842/thing/event/property/post\_reply,  
107,{"code":200,"data":

{},"id":"null","message":"success","method":"thing.event.property.post","version":"1.0"}

//断开连接

AT+MQTTDISC

OK

+MQTTDISC:OK

//删除 MQTT 客户端，并释放资源

AT+MQTTDEL

OK



OK

OK

+MQTTOPEN:OK

OK

+MQTTSUBACK:1,1,/sys/k0jupm3hCdL/ML307842/thing/event/property/post\_reply

OK

```
+MQTTPUBLISH:0,0,0,0,/sys/k0jupm3hCdL/ML307842/thing/event/property/post_reply,107,
{"code":200,"data":
[],"id":"null","message":"success","method":"thing.event.property.post","version":"1.0"}
```

OK

+MQTTDISC:OK

OK

## 串口选择

COM7:USB-SERIAL CH34C ▾

波特率 9600 ▾

停止位 1 ▾

数据位 8 ▾

校验位 None ▾

串口操作  关闭串口

保存窗口

清除接收

☐ 16进制显示 ☐ DTR☐ RTS ☐ 自动保存☐ 时间戳 1000 ms

单条发送 多条发送 协议传输 帮助

<input type="checkbox"/>	MQ316-MQTT-aliyun	100	<input type="checkbox"/>	AT+MQTTPUB="/sys/k0jupm3hCdL/ML30784	105	<input checked="" type="checkbox"/>	发送新行
<input type="checkbox"/>		101	<input type="checkbox"/>		106	<input type="checkbox"/>	16进制发送
<input type="checkbox"/>	±20a706b952d67f7077bad390520170",1,0	102	<input type="checkbox"/>	AT+MQTTDISC	107	<input type="checkbox"/>	关联数字键盘
<input type="checkbox"/>	AT+MQTTOPEN=1,1,0,0,0	103	<input type="checkbox"/>	AT+MQTTDEL	108	<input type="checkbox"/>	自动循环发送
<input type="checkbox"/>	AT+MQTTSUB="/sys/k0jupm3hCdL/ML30784	104	<input type="checkbox"/>	AT+NRB	109	周期	500 ms

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R:331

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当前时间 11:31:35