



IOTZONE[®]

Q1通信协议

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Q1 通信协议

网络参数设置后需要重启或者重新上电。

支持TCP、UDP、MQTT

TCP 端口1234

UDP 端口 9128

MQTT接收控制指令的订阅号是sn+ctr(如: Q110xxxxxxxx638cctr), 返回状态的订阅号是sn+state(如: Q110xxxxxxxx638cctr)

1. 查询设备状态

发送state=?

返回

```
{
  "cmd": "state",
  "output": "0",
  "input": "0",
  "runtime": 289,
  "ts": 1660272027,
  "sn": "Q110xxxxxxxx638c"
}
```

2. 继电器控制

发送setr=1

1表示打开继电器

0表示关闭继电器

2表示点触

3表示翻转

返回

```
{
  "cmd": "setr",
  "output": "1",
  "input": "0",
  "runtime": 319,
  "ts": 1660272057,
  "sn": "Q110xxxxxxxx638c"
}
```



3. 设置继电器保存

发送relaysave=1

1表示开启继电器保存

0表示关闭继电器保存

返回:

```
{  
  "cmd": "outset",  
  "relaystatus": "1",  
  "relaysave": "1",  
  "pulsetm1": 10,  
  "pulsetm2": 10,  
  "runtime": 340,  
  "ts": 1660272027,  
  "sn": "Q110xxxxxxxxx638c"  
}
```

4. 查询继电器参数设置

发送outset=?

返回

```
{  
  "cmd": "outset",  
  "relaystatus": "1",  
  "relaysave": "1",  
  "pulsetm1": 10,  
  "pulsetm2": 10,  
  "runtime": 359,  
  "ts": 1660272027,  
  "sn": "Q110xxxxxxxxx638c"  
}
```

5. 设置网络参数

发送pulsetm1=100, 设置继电器1的点触时间为10秒

返回

```
{  
  "cmd": "outset",  
  "relaystatus": "1",  
  "relaysave": "1",  
  "pulsetm1": 10,  
  "runtime": 431,  
  "ts": 1660272027,
```



```
"sn": "Q110xxxxxxxxx638c"
}
```

6. 设置时区

发送timezone=8

返回

```
{
  "cmd": "ntpts",
  "ntpip": "111.230.189.174",
  "ntpuser": "0.0.0.0",
  "timezone": 8,
  "utc": "10:44:13-5",
  "ts": 1660272253,
  "runtime": 515,
  "sn": "Q110xxxxxxxxx638c"
}
```

7. 设置上报间隔

最小间隔为30s

发送interval=100，设置间隔时间为100秒

返回

```
{
  "cmd": "cloud",
  "postip": "123.57.12.252",
  "postpt": "9128",
  "tcpserverpt": "1234",
  "udpserverpt": "9128",
  "mqttserver": "180.76.114.10",
  "mqttuser": "zmmqtt",
  "mqttpsw": "zhenmingdianzi",
  "mqttpport": "1883",
  "interval": "100",
  "runtime": 539,
  "ts": 1660272277,
  "sn": "Q110xxxxxxxxx638c"
}
```

8. 重启设备

发送restart