



IOTZONE[®]

Q4通信协议

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Q4 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：Q416xxxxxxxx85B6ctr)，返回状态的订阅号是sn+state(如：Q416xxxxxxxx85B6state)

1. 查询设备状态

发送state=?

返回

```
{
  "cmd": "state",
  "output": "0000",
  "input": "0000",
  "runtime": 395,
  "ts": 395,
  "sn": "Q416xxxxxxxx85B6"
}
```

2. 继电器控制

发送setr=1111

1表示打开继电器

0表示关闭继电器

2表示点触

x表示状态不变

返回

```
{
  "cmd": "setr",
  "output": "1111",
  "input": "0000",
  "runtime": 504,
  "ts": 504,
  "sn": "Q416xxxxxxxx85B6"
}
```



3. 设置继电器保存

发送relaysave=1111

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": "0000",  
  "relaysave": "1111",  
  "pulsetm1": 10,  
  "pulsetm2": 10,  
  "pulsetm3": 10,  
  "pulsetm4": 10,  
  "runtime": 570,  
  "ts": 570,  
  "sn": "Q416xxxxxxxx85B6"  
}
```

4. 查询继电器参数设置

发送 outset=?

返回

```
{  
  "cmd": "outset",  
  "relaystatus": "0000",  
  "relaysave": "0000",  
  "pulsetm1": 10,  
  "pulsetm2": 10,  
  "pulsetm3": 10,  
  "pulsetm4": 10,  
  "runtime": 600,  
  "ts": 600,  
  "sn": "Q416xxxxxxxx85B6"  
}
```

5. 输入类型设置

发送intype=1111

1表示边沿触发

0表示电平触发

返回

```
{
```



```
"cmd": "inset",  
"intype": "1111",  
"senceon1": "1xxx",  
"senceon2": "x1xx",  
"senceon3": "xx1x",  
"senceon4": "xxx1",  
"senceoff1": "0xxx",  
"senceoff2": "x0xx",  
"senceoff3": "xx0x",  
"senceoff4": "xxx0",  
"runtime": 628,  
"ts": 628,  
"sn": "Q416xxxxxxxxx85B6"  
}
```

6. 查询输入参数设置

发送inset=?

返回

```
{  
  "cmd": "inset",  
  "intype": "1111",  
  "senceon1": "1xxx",  
  "senceon2": "x1xx",  
  "senceon3": "xx1x",  
  "senceon4": "xxx1",  
  "senceoff1": "0xxx",  
  "senceoff2": "x0xx",  
  "senceoff3": "xx0x",  
  "senceoff4": "xxx0",  
  "runtime": 638,  
  "ts": 638,  
  "sn": "Q416xxxxxxxxx85B6"  
}
```

7. 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": "0000",  
}
```



```
"relaysave": "0000",  
"pulsetm1": 100,  
"pulsetm2": 10,  
"pulsetm3": 10,  
"pulsetm4": 10,  
"runtime": 654,  
"ts": 654,  
"sn": "Q416xxxxxxxxx85B6"  
}
```

8. 设置时区

发送timezone=8

返回

```
{  
  "cmd": "ntpts",  
  "ntpip": "123.57.12.252",  
  "ntpuser": "0.0.0.0",  
  "timezone": 8,  
  "utc": "0:0:0-0",  
  "ts": 671,  
  "runtime": 671,  
  "sn": "Q416xxxxxxxxx85B6"  
}
```

9. 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",  
  "mqttport": "1883",  
  "interval": "100",  
  "runtime": 687,  
  "ts": 687,  
  "sn": "Q416xxxxxxxxx85B6"
```



}

10. 重启设备

发送restart