IOTZONE®

Q8通信协议

常州贞明电子科技有限公司

Zhenming Electronic Technology Co., Ltd

Q8 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：Q853xxxxxxxx5b63ctr)，返回状态的订阅号是sn+state(如：Q853xxxxxxxx5b63state)

1. 查询设备状态
发送state=?
返回

```
{
    "cmd": "state",
    "output": "00000000",
    "input": "00000000",
    "runtime": 23,
    "ts": 23,
    "sn": "Q853xxxxxxxx5b63"
}
```

2. 继电器控制
发送setr=11111111
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": "11111111",
    "input": "00000000",
    "runtime": 25,
    "ts": 25,
    "sn": "Q853xxxxxxxx5b63"
}
```

3. 设置继电器保存

发送relaysave=11111111

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": "11111111",
"relaysave": "11111111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"pulsetm7": 10,
"pulsetm8": 10,
"jgtime": 0,
"runtime": 59,
"ts": 59,
"sn": "Q853xxxxxxxx5b63"
}

4. 设置时序间隔时间

发送 jgtime=10 时序间隔时间为1秒

返回

{
"cmd": "outset",
"relaystatus": "11111111",
"relaysave": "11111111",
"pulsetm1": 10,
"pulsetm2": 10,
"pulsetm3": 10,
"pulsetm4": 10,
"pulsetm5": 10,
"pulsetm6": 10,
"pulsetm7": 10,
"pulsetm8": 10,
"jgtime": 10,
"runtime": 96,

```
    "ts": 96,
    "sn": "Q853xxxxxxxx5b63"
}
```

5. 查询继电器参数设置

发送 outset=?

返回

```
{
    "cmd": "outset",
    "relaystatus": "11111111",
    "relaysave": "11111111",
    "pulsetm1": 10,
    "pulsetm2": 10,
    "pulsetm3": 10,
    "pulsetm4": 10,
    "pulsetm5": 10,
    "pulsetm6": 10,
    "pulsetm7": 10,
    "pulsetm8": 10,
    "jgtime": 10,
    "runtime": 137,
    "ts": 137,
    "sn": "Q853xxxxxxxx5b63"
}
```

6. 输入类型设置

发送intype=11111111

1表示边沿输入

0表示电平输入

返回

```
{
    "cmd": "inset",
    "intype": "11111111",
    "senceon1": "3xxxxxxx",
    "senceon2": "x3xxxxxx",
    "senceon3": "xx3xxxxx",
    "senceon4": "xxx3xxxx",
    "senceon5": "xxxx3xxx",
    "senceon6": "xxxxx3xx",
    "senceon7": "xxxxxx3x",
```

"senceon8": "xxxxxxx3",
"senceoff1": "3xxxxxxx",
"senceoff2": "x3xxxxxx",
"senceoff3": "xx3xxxxx",
"senceoff4": "xxx3xxxx",
"senceoff5": "xxxx3xxx",
"senceoff6": "xxxxx3xx",
"senceoff7": "xxxxxx3x",
"senceoff8": "xxxxxxx3",
"runtime": 271,
"ts": 271,
"sn": "Q853xxxxxxxx5b63"
}

7. 查询输入参数设置

发送inset=?

返回

{
"cmd": "inset",
"intype": "11111111",
"senceon1": "3xxxxxxx",
"senceon2": "x3xxxxxx",
"senceon3": "xx3xxxxx",
"senceon4": "xxx3xxxx",
"senceon5": "xxxx3xxx",
"senceon6": "xxxxx3xx",
"senceon7": "xxxxxx3x",
"senceon8": "xxxxxxx3",
"senceoff1": "3xxxxxxx",
"senceoff2": "x3xxxxxx",
"senceoff3": "xx3xxxxx",
"senceoff4": "xxx3xxxx",
"senceoff5": "xxxx3xxx",
"senceoff6": "xxxxx3xx",
"senceoff7": "xxxxxx3x",
"senceoff8": "xxxxxxx3",
"runtime": 353,
"ts": 353,
"sn": "Q853xxxxxxxx5b63"
}

8. 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": "11111111",
    "relaysave": "11111111",
    "pulsetm1": 100,
    "pulsetm2": 10,
    "pulsetm3": 10,
    "pulsetm4": 10,
    "pulsetm5": 10,
    "pulsetm6": 10,
    "pulsetm7": 10,
    "pulsetm8": 10,
    "jgtime": 10,
    "runtime": 374,
    "ts": 374,
    "sn": "Q853xxxxxxxx5b63"
}
```


9. 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": "0:0:0-0",
    "ts": 398,
    "runtime": 398,
    "sn": "Q853xxxxxxxx5b63"
}
```


10. 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": 424,
"ts": 424,
"sn": "Q853xxxxxxxx5b63"
}

11. 重启设备

发送restart