

<b>Product Name</b>	9X15 TCP/IP User' s Guide
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# **9X15 TCP/IP User's Guide**

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V1.01



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## Update records

version	Date	Author	Description
V1.01	2016.11.16	zhangfangfang	Initial

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## Module as client

### 1. Set user name and password

```
AT$QCPDPP=1,3,XMtest@234,test2@xmtest.vpdn.fj //Configuration file number,  
Authentication mode>Password,user
```

OK

### 2. Set APN

```
AT+CGDCONT=1,"IP","public.vpdn" //Numerical parameters,Type of packet data  
protocol,"APN"
```

OK

### 3. Opens packet network

```
AT+MIPCALL=1 //Open PPP connection
```

OK

+MIPCALL: 1

### 4. Query Module's IP

```
AT+MIPCALL? //Query PPP connection, and get a valid IP address
```

```
+MIPCALL:1,192.168.2.109 //Socket_ID, client IP
```

OK

### 5. Establish socket connection

```
AT+MIPOPEN=1,"TCP","192.168.2.109",12345,10000 //Socket_ID, protocol stack type,  
server IP address, server port, local port
```

OK

```
+MIPOPEN:1,1 //Socket_ID, build success
```

```
AT+MIPOPEN=2,"TCP","192.168.2.109",12345,20000
```

OK

```
+MIPOPEN:2,1
```



AT+MIOPEN=3,"TCP","192.168.2.109",12345,50000

OK

+MIOPEN:3,1

## 6. Select data mode

AT+MIPMODE=2,1 //Socket\_ID,Sixteen binary text format

OK

AT+MIPMODE=3,2 //Socket\_ID,00-FF arbitrary character

OK

## 7. Send data to client

AT+MIPSEND=1,10 //Socket\_ID, data length

> ##### //Data , CTRL+Z end to send

+MIPSEND:1,10 //Socket\_ID, data length

OK

AT+MIPSEND=2,16 //Socket\_ID, data length

>2323232323232323 //23 representative character #

+MIPSEND:2,8 //Socket\_ID, data length

OK

AT+MIPSEND=3,5 //Socket\_ID, data length

>1A1B08001A //Special character

+MIPSEND:3,5 //Socket\_ID, data length

OK

## 8. Receive data from client

+MIPDATA:1,10,AAAAAAAAAA //Socket\_ID, data length, received data

+MIPDATA:1,5,11111



## Module as server

### 1. Set user name and password

```
AT$QCPDPP=1,3,XMtest@234,test2@xmtest.vpdn.fj //Configuration file number,  
Authentication mode,Password,user
```

OK

### 2. Set APN

```
AT+CGDCONT=1,"IP","public.vpdn" //Numerical parameters,Type of packet data  
protocol, "APN"
```

OK

### 3. Opens packet network

```
AT+MIPCALL=1 //Open PPP connection
```

OK

+MIPCALL: 1

### 4. Query Module's IP

```
AT+MIPCALL?
```

```
+MIPCALL:1,192.168.2.109 //Socket_ID, client IP
```

OK

### 5. Startup TCP server listen

```
AT+MIPLISTEN=1,"TCP","127.0.0.1",12345 //Socket_ID,TCP connection, Local IP,  
server port number
```

OK

+MIPLISTEN:1,1

### 6. Send data to client

```
AT+MIPSEND=1,10,"192.168.2.110",20000 //Socket_ID, data length, client IP, customer  
>AAAAAAAAAAAA End slogan
```

+MIPSEND:1,10



OK

```
AT+MIPSEND=1,5,"192.168.2.110",50000 //Socket_ID, data length, client IP, customer  
>11111 End slogan  
+MIPSEND:1,5
```

OK

### 7. Receive data from client

```
+MIPUDPS:1,10,192.168.2.110,10000,##### //Socket_ID, data length, client IP,  
Client port number, received data  
+MIPUDPS:1,8,192.168.2.110,20000,#####
```