



Application Guide

---Service SMS



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Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	Hongdian Router	2020.09.02	First Release

1 Overview

The Hongdian router supports SMS feature, which can view and configure some parameters of the router. Here I will introduce how to configure.

2 Description

1. Make sure the router connect to internet.

The screenshot shows the router's web interface with the 'Status' tab selected. The 'Modem' section is active, displaying the following information:

Modem Select	0
Up Time	618 seconds
Modem Status	connected
Network Type	fdd-lte
Signal	(22)
IP Address	10.13.249.30
DNS	120.196.165.7
SIM Select	sim1
SIM Status	ready
SIM ICCID	898600001920C7493413
SIM IMSI	460020175130698
LAC	10138
CELL ID	53750415
RSRP	-101
SINR	3
Operator	CHINA MOBILE
Band	LTE BAND 3

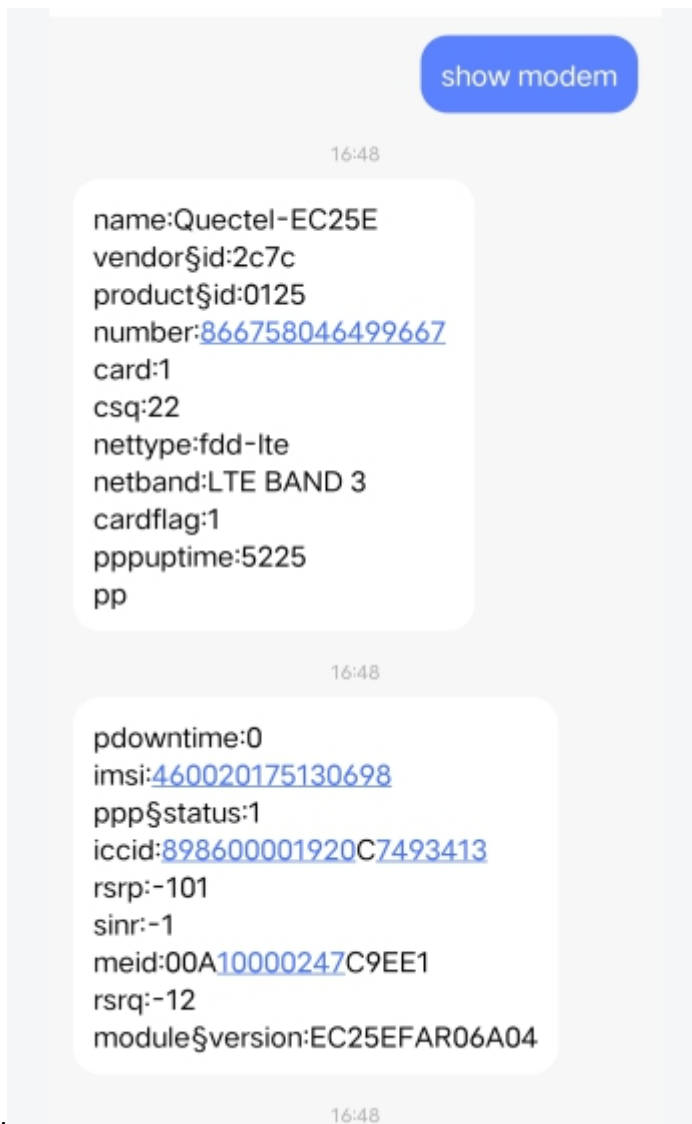
On the right side of the page, there is a 'Help' button and a 'Display:' section with the text: 'This page displays cellular modem status.'

2. Enable SMS service.

The screenshot shows the router's web interface with the following structure:

- Navigation Tabs:** Network, IPv6, Applications (selected), VPN, Forward, Security, System, Status, Logout.
- Sub-Menu:** ICMP Check, DDNS, DTU/MODBUS, SNMP, SMS (selected), Radius, Tacacs+, VRRP, SIM Select, Schedule, M2M.
- Configuration Area:**
 - SMS Service:** Includes 'Enable' and 'Disable' buttons.
 - Phone Number:** A search bar with 'Phone Number' text and an 'Operatio' button.
 - Phone Number List:** A table with a header 'Phone Number' and a 'Max length is 32' label. Below it is an 'Add' button.
- Help Panel:**
 - Advice:** The maximum number of number configurable is 20.
 - Note:** SMS maximum length is 140 characters.
 - Note:** The "Phone number" list is a white list. If a phone number is added, then white list is enabled, then router only will execute command from listed phone number. If no phone number is added, router will execute command from any phone number. The maximum length of recognizable SMS is 140 characters.

3. You can send commands to the router via SMS on your phone,for example:show



5. If add your mobile phone number to the whitelist, it means that only the SMS from this number is valid for the router.

Help

Advice:
The maximum number of number configurable is 20.

SMS maximum length is 140 characters.

Note:
The "Phone number" list is a white list. If a phone number is added, then white list is enabled, then router only will execute command from listed phone number. If no phone number is added, router will execute command from any phone number. The maximum length of recognizable SMS is 140 characters.

6. SMS format:

[operate] [object]
[configure]

[operate] : reboot / help / show / set

[object]:modem/modem2/m2m/lan/wan/mc/m2m/ipsec ...

Description:

1. The command format is not case sensitive. For example, reboot/REboot can be used.
2. If the SMS is successfully executed, it will reply to the SMS, otherwise it will not return.

Reboot the device

reboot #send restart command

>>>

Reboot success

SMS query command

show modem #Query modem status information

>>>

name:Quectel-EC25E

vendor_id:2c7c

product_id:0125

number:861107038795531

card:0

csq:23

nettype:fdd-lte

cardflag:1

ppp uptime:11780

...

ip:10.171.222.190

```
show wan      #Query wan status information
>>>
work mode:static
ip:192.168.10.1
status:down
```

```
show lan      #Query lan status information
>>>
ip:192.168.8.1
status:up
```

```
show mc      #Query mc number configuration
>>>
phone number:
1893866XXXX
1864568XXXX
```

```
show m2m #Query m2m status information>>>
status:connected
show ipsec #Query ipsec status information
>>>
ipsec:ipsec3
status:connected
online:0 days 8 hours 30minutes 38 seconds
```

SMS help description

```
help or [?]  #Send a 'help' query command, '?' is equivalent to help
>>>
reboot
```

```
help(modem/modem2/m2m/lan/mc) #help can be followed by parameters
show(modem/modem2/m2m/lan/mc/wan/ipsec) #show parameters that can be taken after
set(modem/modem2/m2m/lan/mc) #Parameters that can be followed by set
e.g. set modem 0
apn 123
nettype auto
```

```
help lan      #Query lan which parameters can be configured
>>>
command list:
lan1 (e.g.192.168.8.1/24)  #Configuring lan1 IP
Lan2                      #Configure lan2 IP, e.g. lan2 192.168.8.1/24
No&lan2                   #delete lan2 IP, e.g. no&lan2
Lan3                      #configlane lan3 IP
No&lan3                   #delete lan3 IP
Lan4                      #Configure lan4 IP
No&lan4                   #delete lan4 IP
e.g.
```

```
set lan
lan1 192.168.8.1/24
lan2 192.168.88.1/24
no&lan3
no&lan4
```

help mc

>>>

command list:

Enable	# enable function
Disable	#off function
Phone	#configuration trust number, e.g. phone 1893866XXXX
No&phone	#delete trust number, e.g. no&phone 1893866XXXX

e.g.

```
set mc
enable
phone 18938660000
phone 18938660001
no&phone 18938660002
```

SMS configuration command

Add a modem rule:

```
Set modem 0
Apn 4gnet
Username who
Password who
Nettype fdd-lte
Mode dhcp
Code 12345678
Pin 1234
```

Disable modem

```
Set modem 0
Disable
```

Enable modem

```
Set modem 0
Enable
```

Modify apn

```
Set modem 0
Apn 4gnet
```

Modify service code

```
Set modem 0
Code *99***1#
```

Modify username and password

```
Set modem 0
```


Username who
Password who

Modify pin
Set modem 0
Pin 1234

Modify network mode
Set modem 0
Nettype wcdma

Modify sim card
Set modem 0
Sim 2

Modify the dialing method
Set modem 0
Mode pppd

Delete modem
Set modem 0
Delete

Clear modem configuration
Set modem 0
No&apn
No&code
No&username password
No&pin

M2M function settings

Configuring m2m
Set m2m
Enable
Server 212.10.10.10
Port 51330
Interface modem

Open m2m
Set m2m
Enable

Close m2m
Set m2m
Disable

Modify the m2m source interface
Set m2m
Interface eth0

Modify m2m server

Set m2m
Server hdwuhan.ddns.info

Modify the m2m port
Set m2m
Port 41330

LAN function setting
LAN related configuration (you can configure only one LAN)
Set lan
Lan1 192.168.8.1/24
Lan2 192.168.9.1/24
Lan3 192.168.11.1/24
Lan4 192.168.12.1/24

Clear LAN ip
Set lan
No&lan2
No&lan3
No&lan4

Add a trust number:
Add 1 trust number
Set mc
Phone 18685617134

Add multiple trust numbers
Set mc
Phone 222
Phone 18786321234

Delete trust number
Set mc
No&phone 123

Close mc
Set mc
Disable





Create smart things



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