



Application Guide

---Service SIM Select



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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 dual sim card switching based on signal strength, latency, and monthly traffic usage.

Here I will introduce how to configure.

2 Description

1. Please check the NTP status that should be display "Sync success" as below show.

The screenshot shows the router's configuration interface. The top navigation bar includes tabs for Network, IPv6, Applications, VPN, Forward, Security, System (highlighted), and Status. Below this is a secondary menu with Local Log, Remote Log, Clock (highlighted), Account, Network Test, Files, Cert, and Terminal. The main content area is titled 'System' and contains the following settings:

- Status: Enable (selected) / Disable
- Time Sync Type: ntp (dropdown)
- Source Interface: default (dropdown)
- Sync Status: Sync success (highlighted with a red box)
- NTP Server IP or Domain: ntp.sjtu.edu.cn (dropdown) * Max length is 64
- NTP Server BackUp: (empty text box) Max length is 64
- NTP Sync Interval: 600 (text box) * 1-65535 s
- Time Zone: (UTC-12:00)International-Date-Line (dropdown)

At the bottom of the configuration area are 'Save' and 'Refresh' buttons. A 'Help' button is located in the top right corner of the configuration area. A note on the right side of the page reads: "Note: Click the save button to save system time."

2. Configure SIM Select base on Data Usage.

Network IPv6 **Applications** VPN Forward Security System Status Logout

ICMP Check DDNS DTU/MODBUS SNMP SMS Radius Tacacs+ VRRP **SIM Select** Schedule M2M

Help

SIM Select Service

Basic Settings

Main SIM

Backup SIM

Select Criteria

Monthly Usage Cap * MB

Cycle Start Day Of Month

Custom Reset MB

Current SIM Card sim1

SIM1 Flows 63.000 KB 1.23%

SIM2 Flows 0.000 KB

Note:
Signal Strength:Number Of Statistics means that numbers of the signal strength lower than setting.
Data Usage:You can reset the flow on one day of month or reset by custom with "Custom Reset".
Latency:The criteria is average value of Number Of Statistics
Information:
 The sim_select, linkswitch, linkbackup, icmpcheck, Schedule could not work at same time.
 The modem rule in used could not be deleted.

This means that when SIM1 usage more than 5M(this number can be configured) this month, it will automatically switch to SIM2.

Network IPv6 **Applications** VPN Forward Security System Status Logout

ICMP Check DDNS DTU/MODBUS SNMP SMS Radius Tacacs+ VRRP **SIM Select** Schedule M2M

Help

SIM Select Service

Basic Settings

Main SIM

Backup SIM

Select Criteria

Monthly Usage Cap * MB

Cycle Start Day Of Month

Custom Reset MB

sim2

SIM1 Flows 6.037 MB

SIM2 Flows 0.000 KB 0.00%

Note:
Signal Strength:Number Of Statistics means that numbers of the signal strength lower than setting.
Data Usage:You can reset the flow on one day of month or reset by custom with "Custom Reset".
Latency:The criteria is average value of Number Of Statistics
Information:
 The sim_select, linkswitch, linkbackup, icmpcheck, Schedule could not work at same time.
 The modem rule in used could not be deleted.

3. Configure SIM Select base on Singal Strength.

Network	IPv6	Applications	VPN	Forward	Security	System	Status	Logout		
ICMP Check	DDNS	DTU/MODBUS	SNMP	SMS	Radius	Tacacs+	VRRP	SIM Select	Schedule	M2M

[Help](#)

SIM Select Service

Basic Settings

Main SIM	<input type="text" value="modem 0"/>	
Backup SIM	<input type="text" value="modem 1"/>	
Select Criteria	<input type="text" value="Signal Strength"/>	
Signal Strength	<input type="text" value="20"/>	* 1-31dBm
Number Of Statistics	<input type="text" value="2"/>	* 1-60
Interval	<input type="text" value="60"/>	* 60-120s
Current SIM Card	sim1	
Current Signal Strength	20	

Note:
Signal Strength:Number Of Statistics means that numbers of the signal strength lower than setting.

Data Usage:You can reset the flow on one day of month or reset by custom with "Custom Reset".

Latency:The criteria is average value of Number Of Statistics

Information:
 The sim_select, linkswitch, linkbackup, icmpcheck, Schedule could not work at same time.

The modem rule in used could not be deleted.

This means that the signal strength will be checked every 60 seconds. when the signal Strength is below 20dBm for twice, it will switch from SIM1 to SIM2.

4. Configure SIM Select base on latency.

Network	IPv6	Applications	VPN	Forward	Security	System	Status	Logout		
ICMP Check	DDNS	DTU/MODBUS	SNMP	SMS	Radius	Tacacs+	VRRP	SIM Select	Schedule	M2M

[Help](#)

SIM Select Service

Basic Settings

Main SIM	<input type="text" value="modem 0"/>	
Backup SIM	<input type="text" value="modem 1"/>	
Select Criteria	<input type="text" value="Latency"/>	
Latency	<input type="text" value="80"/>	* 10-3000 ms
Target	<input type="text" value="8.8.8.8"/>	* eg. 8.8.8.8
Number Of Statistics	<input type="text" value="1"/>	* 1-60
Interval	<input type="text" value="60"/>	* 60-120s
Current SIM Card	sim2	
Current Latency	none	

Note:
Signal Strength:Number Of Statistics means that numbers of the signal strength lower than setting.

Data Usage:You can reset the flow on one day of month or reset by custom with "Custom Reset".

Latency:The criteria is average value of Number Of Statistics

Information:
 The sim_select, linkswitch, linkbackup, icmpcheck, Schedule could not work at same time.

The modem rule in used could not be deleted.


This means that 10 ICMP packets will be sent to 8.8.8.8 every 60 seconds. If the latency is greater than 80ms, it will automatically switch from SIM1 to SIM2.





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