



Application Guide

---Link Switch-WAN/Modem



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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

Hongdian 4G/5G Router provides WAN/Modem link Switch for the field application which may need the WAN wired connection as main link, and the 4G/5G wireless connection as backup link, so as to make sure the stable connection.

Here we introduce the settings that WAN link as main, modem link as backup (SIM1 and SIM2 can switch to each other automatically).

2 Description

1. We finish the settings about wan and modem, wan port type is dhcp (for example the wan port method of getting the IP), make sure wan and modem both connect.

WAN:

Network		IPv6	Applications	VPN	Forward	Security	System	Status	Logout
Basic System Information		LAN	WAN	WLAN	Modem	Routing Table	Traffic Statistics		

WAN Status

Enable

IPv4

Wan Type

dhcp

IP

192.168.11.134

Mask

255.255.255.0

MAC

00:50:C2:C3:A8:FB

IPv6

Wan Type

static IP

IPv6

Refresh

Help

Display:
This page displays basic WAN configuration.

Modem:

The screenshot shows a web-based network management interface. At the top, there is a navigation bar with tabs for Network, IPv6, Applications, VPN, Forward, Security, System, and Status (which is highlighted). Below this, there is a sub-navigation bar with tabs for Basic System Information, LAN, WAN, WLAN, Modem (which is highlighted and has a red box around it), Routing Table, and Traffic Statistics. A 'Logout' button is located in the top right corner. The main content area is titled 'Modem' and displays a list of modem parameters and their values. A 'Refresh' button is located at the bottom of the main content area. On the right side, there is a 'Help' button and a 'Display:' section with a description of the page.

Modem	
Modem Select	0
Up Time	493 seconds
Modem Status	connected
Network Type	fdd-lte
Signal	 (23)
IP Address	10.192.177.229
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	-1
Operator	CHINA MOBILE
Band	LTE BAND 3

[Refresh](#)

Help

Display:
This page displays cellular modem status.

2. Configure link switch, wan port as the main connection, SIM1 as the backup connection, the connection status will be displayed as green

Network		IPv6	Applications	VPN	Forward	Security	System	Status	Logout
LAN	WAN	WLAN	Modem	Parameter Select	Network Type	Link Backup	Link Switch	DHCP Server	
LinkSwitch Service Enable Disable								Help	
Link in use WAN								Note: This function is applicable to single mode and double card products. If the virtual interface is bound, please fill in the IP address of the virtual interface. Information: The sim_select, linkswitch, linkbackup, icmpcheck, Schedule could not work at same time. The modem rule in used could not be deleted.	
Main Interface Name WAN ● Check IP or Domain 8.8.8.8 * Max length is 64 Normal Interval 30 * 1-65535 Retry Times 3 * 1-65535 Interface binding none ▼									
backup Interface Name SIM1 ● Check IP or Domain 8.8.4.4 * Max length is 64 Normal Interval 30 * 1-65535 Retry Times 3 * 1-65535 Interface binding none ▼									

3. When the WAN port is unreachable, it will automatically switch to SIM1.

Network		IPv6	Applications	VPN	Forward	Security	System	Status	Logout
LAN	WAN	WLAN	Modem	Parameter Select	Network Type	Link Backup	Link Switch	DHCP Server	
LinkSwitch Service Enable Disable								Note: This function is applicable to single mode and double card products.	
Link in use SIM1								If the virtual interface is bound, please fill in the IP address of the virtual interface.	
Main								Information: The sim_select, linkswitch, linkbackup, icmpcheck, Schedule could not work at same time. The modem rule in used could not be deleted.	
Interface Name WAN ● Check IP or Domain 8.8.8.8 * Max length is 64 Normal Interval 30 * 1-65535 Retry Times 3 * 1-65535 Interface binding none ▼									
backup									
Interface Name SIM1 ● Check IP or Domain 8.8.4.4 * Max length is 64 Normal Interval 30 * 1-65535 Retry Times 3 * 1-65535 Interface binding none ▼									

4. When the SIM1 is unreachable, it will automatically switch to SIM2.

Main

Interface Name WAN ●

Check IP or Domain * Max length is 64

Normal Interval * 1-65535

Retry Times * 1-65535

Interface binding

Information:

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

The modem rule in used could not be deleted.

backup

Interface Name SIM1 ●

Check IP or Domain * Max length is 64

Normal Interval * 1-65535

Retry Times * 1-65535

Interface binding

backup

Interface Name SIM2 ●

Check IP or Domain Max length is 64

Normal Interval 1-65535

Retry Times 1-65535

Interface binding

Save

Refresh

Note:

SIM1 and SIM2 can only have one connection at the same time.

SIM1 and SIM2 can switch to each other automatically.

The Main check IP or Domain and backup Check IP or Domain can not same.

5. When the WAN port is reachable, it will automatically switch to the WAN port.

LinkSwitch Service

 Note:

This function is applicable to single mode and double card products.

Link in use

WAN

If the virtual interface is bound, please fill in the IP address of the virtual interface.

Main

Interface Name WAN ●

Check IP or Domain * Max length is 64

Normal Interval * 1-65535

Retry Times * 1-65535

Interface binding ▼

Information:

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

The modem rule in used could not be deleted.

backup

Interface Name SIM1 ●

Check IP or Domain * Max length is 64

Normal Interval * 1-65535

Retry Times * 1-65535

Interface binding ▼

backup

Interface Name SIM2 ●

Check IP or Domain Max length is 64

Normal Interval 1-65535

Retry Times 1-65535

Network
IPv6
Applications
VPN
Forward
Security
System
Status
Logout

Basic System Information
LAN
WAN
WLAN
Modem
Routing Table
Traffic Statistics

Static Route

Network	Subnet Mask	Gateway	Interface	Metric
0.0.0.0	0.0.0.0	192.168.11.254	eth0	1
8.8.4.4	255.255.255.255	0.0.0.0	modem	0
8.8.8.8	255.255.255.255	192.168.11.254	eth0	0
10.22.22.1	255.255.255.255	0.0.0.0	tunnel13	0
192.168.8.0	255.255.255.0	0.0.0.0	br0	0
192.168.11.0	255.255.255.0	0.0.0.0	eth0	0
192.168.101.0	255.255.255.0	0.0.0.0	br0	0
192.168.251.77	255.255.255.255	0.0.0.0	modem	0

Policy Route

Network	Subnet Mask	Gateway	Interface	Priority
10.120.242.124	255.255.255.255	0.0.0.0	modem	32764
192.168.11.56	255.255.255.255	192.168.11.254	eth0	32765

IPv6 Router

Network	Subnet Mask	Gateway	Interface	Metric
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Refresh

Help

Display:
This page displays system's current routing table.
There will be one default route status displayed when the link backup function is enabled. See Network configuration; Link Backup.



Create smart things



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