1. Overview

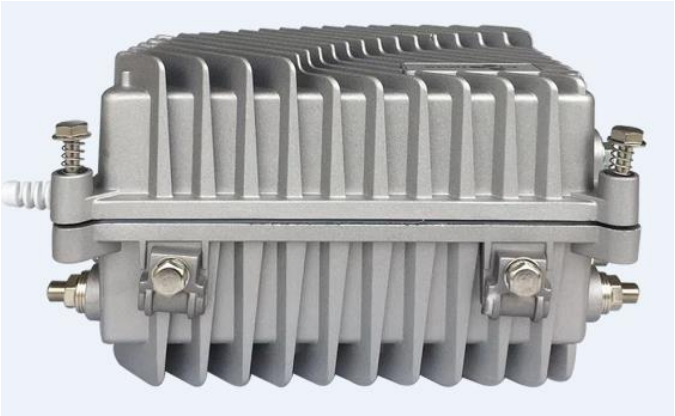
The G4200C system contains the headend Switch G4200-4C/G4200C/G4200E and the Client device G4201C/G4204C.

2. Hardware Descriptions

G4200-4C/8C

G4200C

G4200E



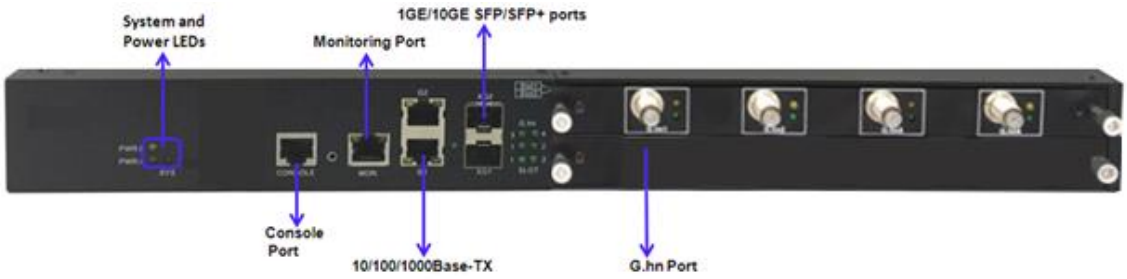
G4201C

G4204C

2.1 G4200-4C/8C (Headend device)

G4200-4C/8C is the device of multiplexer system, as shown in the following drawings. It supports 2 x10G SFP ports, 2 x 10/100/1000BT ports, 4/8 x coax g.hn Ports, one gigabit monitor port.

The front panel is shown below:



The following table shows the port descriptions.

Label	Description
Console	Console port: A RS-232 connector for connection to a computer for console control/administration. The RS-232 console port can be used for accessing the device CLI (command line interface) for out-of-band management.
MON	Monitor port , 1 x 1GE local system provision/monitoring port
G1/G2	2 x 1GE Ethernet ports for uplink aggregation
XG1/XG2	2 x 10GE SFP Ethernet ports for uplink aggregation
G.hn1/G.hn2	G.hn ports for data signal and CATV signal

The following table shows the LED descriptions.

Label	Type	Color	State	Description
PWR A/B	Power status	Yellow	On	The power is on and supplying the current to the system
			Off	The power is off or it is not supplying the current to the system
SYS	System status	Green	On	System is started
			Off	System has not started
G.hn 1/G.hn2	G.hn link status	Green	On	The corresponding port connection normal
			Off	The link condition is poor or there is no connection to this port
		Yellow	On	The corresponding port connection abnormal and link quality is poor
			Off	The link condition is normal or there is no connection to this port
XG1/XG 2	Ethernet link status	Green	On	The corresponding port connection normal
			Off	there is no connection to this port
G.hn	G.hn port status	Green	On	The corresponding port is selected.
			Off	The corresponding port is not selected.
Slot	Slot status		On	The corresponding slot is selected.
			Off	The corresponding slot is not selected.
G1/G2/ MON	Ethernet link status	Green	On	The corresponding port connection rate is 1000Mbps
			Off	The corresponding port connection rate is 10/100 Mbps
		Yellow	On	The corresponding port connection normal
			Off	There is no connection to this port
			Blink	The G1/G2/ MON port is up and this port is working.

2.2 G4200C (Headend device)

G4200C is the device of multiplexer system, as shown in the following drawings. It supports

1 x10G SFP ports, 2 x 10/100/1000BT ports,6 x coax g.hn Ports, one gigabit monitor port.

The front panel is shown below:

The following table shows the port descriptions.

Label	Description
Console	Console port: A RS-232 connector for connection to a computer for console control/administration. The RS-232 console port can be used for accessing the device CLI (command line interface) for out-of-band management.
MON	Monitor port , 1 x 1GE local system provision/monitoring port
G1/G2	2 x 1GE Ethernet ports for uplink aggregation
XG1/XG2	1 x 10GE SFP Ethernet ports for uplink aggregation
G.hn1/G.hn2/G.hn3/G.hn4/G.hn5/G.hn6	G.hn ports for data signal and CATVsignal

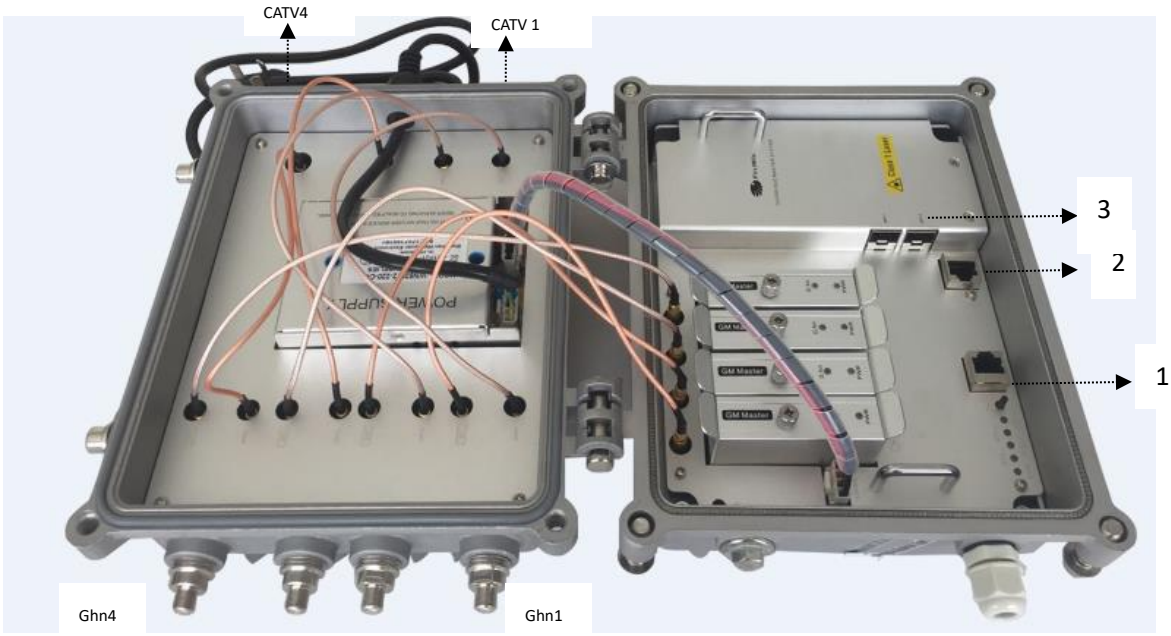
The following table shows the LED descriptions.

Label	Type	Color	State	Description
PWR A/B	Power status	Yellow	On	The power is on and supplying the current to the system
			Off	The power is off or it is not supplying the current to the system
SYS	System status	Green	On	System is started
			Off	System has not started
G.hn1/ G.hn2/	G.hn link status	Green	On	The corresponding port connection normal

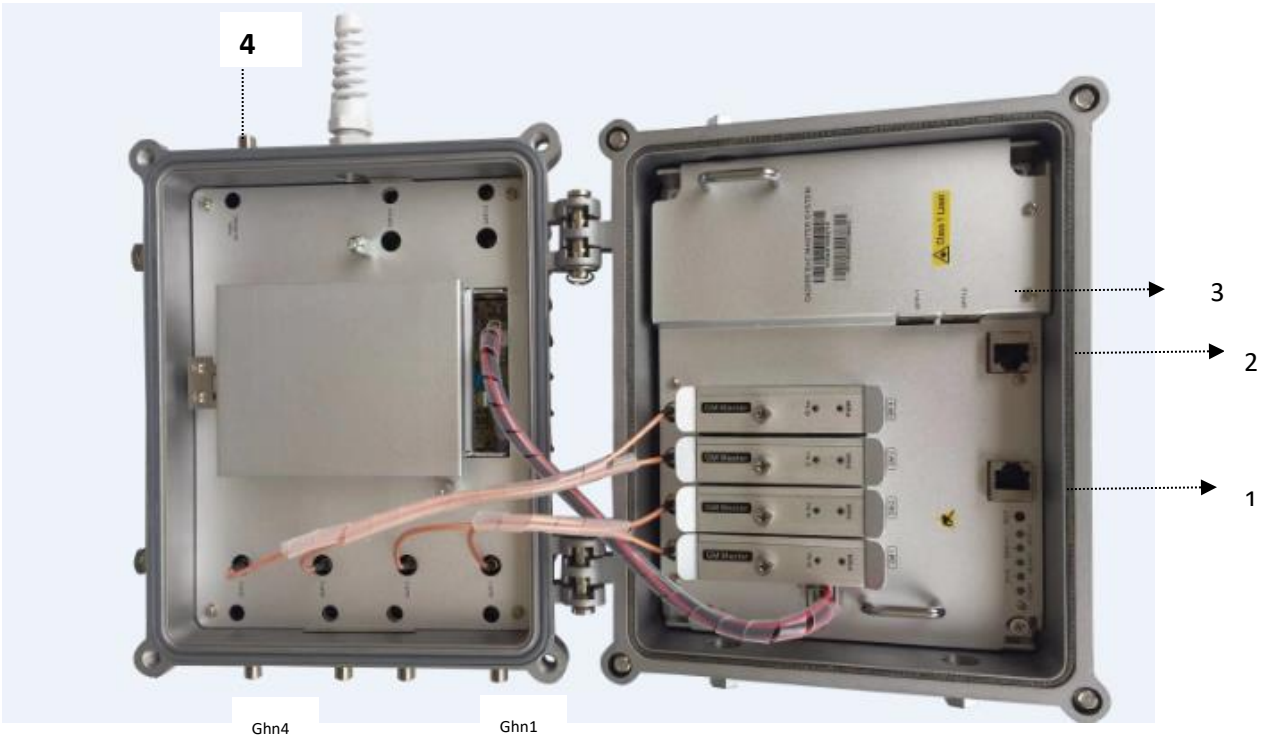
G.hn3/ G.hn4/ G.hn5/ G.hn6			Off	The link condition is poor or there is no connection to this port
		Yellow	On	The corresponding port connection abnormal and link quality is poor
			Off	The link condition is normal or there is no connection to this port
XG1/XG2	Ethernet link status	Green	On	The corresponding port connection normal
			Off	there is no connection to this port
G.hn	G.hn port status	Green	On	The corresponding port is selected.
			Off	The corresponding port is not selected.
Slot	Slot status		On	The corresponding slot is selected.
			Off	The corresponding slot is not selected.
G1/G2/ MON	Ethernet link status	Green	On	The corresponding port connection rate is 1000Mbps
			Off	The corresponding port connection rate is 10/100 Mbps
		Yellow	On	The corresponding port connection normal
			Off	There is no connection to this port
			Blink	The G1/G2/ MON port is up and this port is working.

2.3 G4200E (Headend device)

G4200E is the device of multiplexer system, as shown in the following drawings. It supports 2 XGE/10G SFP ports, 1 x 10/100/1000BT ports, 4 x coax g.hn Ports, one gigabit monitor port.



G4200E-4C (220V-AC)



G4200E (60V-AC)

The following table shows the port descriptions.

Label	Description
Console (1)	Console port: A RS-232 connector for connection to a computer for console control/administration. The RS-232 console port can be used for accessing the device CLI (command line interface) for out-of-band management.
MGMT (2)	Monitor port, 1 x 1GE local system provision/monitoring port
SPF+1/SFP+2 (3)	2x GE/10GE SFP Ethernet ports for uplink aggregation
G.hn1/G.hn2/G.hn3/G.hn4	G.hn ports for data signal
CATV1/CATV2/CATV3/CATV4	CATV signal input port
PWR(4)	Power is supplied via coaxial cables (40-95VAC)

The following table shows the LED descriptions.

Label	Type	Color	State	Description
PWR	Power status	Yellow	On	The power is on and supplying the current to the system
			Off	The power is off or it is not supplying the current to the system
SYS	System status	Green	On	System is started
			Off	System has not started
G.hn1 G.hn2 G.hn3 G.hn4	G.hn link status	Green	On	The corresponding port connection normal
			Off	The link condition is poor or there is no connection to this port
		Yellow	On	The corresponding port connection abnormal and link quality is poor
			Off	The link condition is normal or there is no connection to this port
SFP+1/SPF+2	Ethernet link status	Green	On	The corresponding port connection normal
			Off	there is no connection to this port
G.hn	G.hn port status	Green	On	The corresponding port is selected.

			Off	The corresponding port is not selected.
			Off	The corresponding slot is not selected.
MGMT	Ethernet link status	Green	On	Connection Rate 1000Mbps
			Off	Connection Rate 10/100 Mbps
		Yellow	On	The corresponding port connection normal
			Off	There is no connection to this port
			Blink	The MGMT port is up and this port is working.

2.4 G4201C (Remote device)

The panels are shown below:

The following table shows the port descriptions.

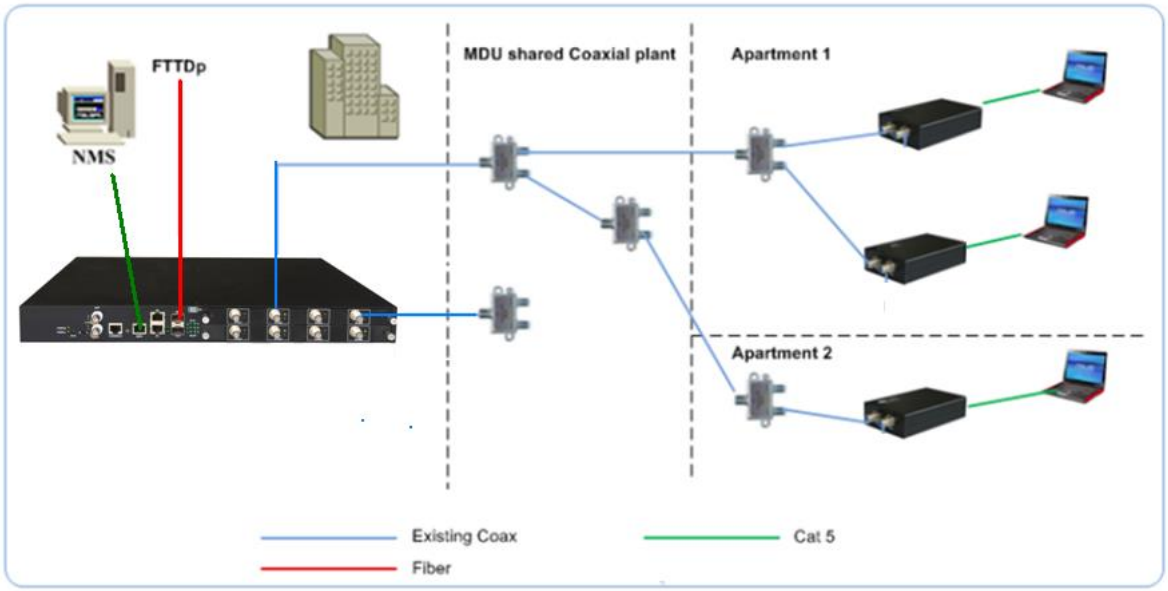
Label	Description
G.hn	One combined RF CATV and G.HN input port supporting P2P and P2MP connections
DC-12V/1.0A Input	The remote converter units support 12V DC power supply option. The above figure shows the power connector on the rear panel.
GE	1x 10/100/1000BT Ethernet ports, Ethernet RJ-45 connection, Connect to computer or other Ethernet device

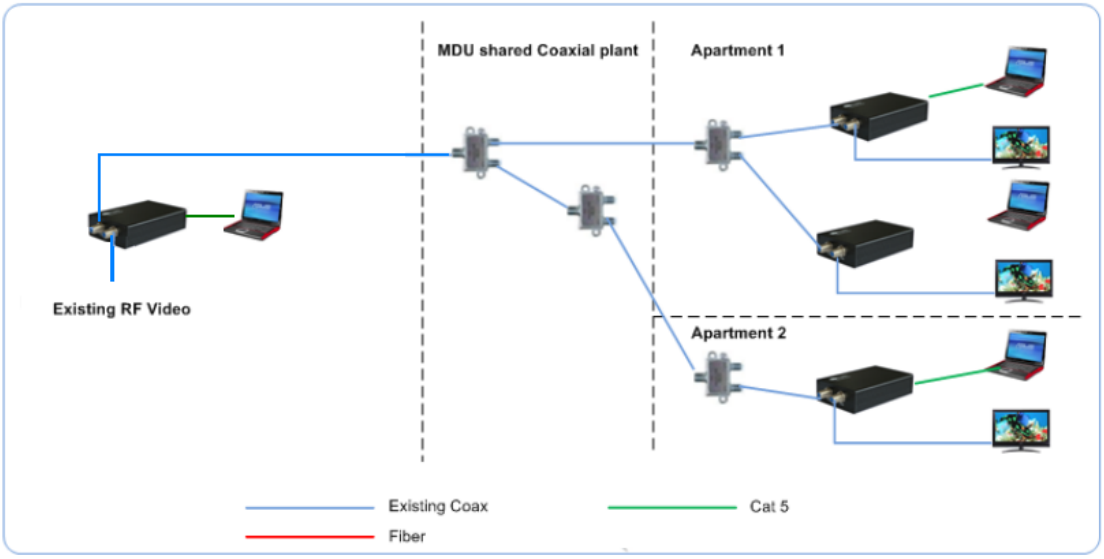
The following table shows the LED description：

LED	LED color	Description	
PWR	Yellow	On	Power supply is normal

		Off	The power is off or it is abnormal
G.hn	Green	On	Corresponding port connection normal
		Off	Green led and Yellow led are off ,this port is not connected
	Yellow	On	Corresponding port connection abnormal and link quality is poor
		Off	Green led and Yellow led are off ,this port is not connected
GE	Yellow	On	Corresponding port is connected
		Off	Corresponding port is not connected
		Blinking	Corresponding port Data is transmitting (sending/receiving)
GE	Green	On	Corresponding port link speed is 1000Mbps
		Off	Corresponding port link speed is 10/100Mbps

3. Application Diagram





4. Installation

Setup1:
G4200-4C/8C or G4200C or G4200E (Headend device) + G4201C (Remote device)

Setup2:
G4200CD-L (Local device) + G4201C (Remote device)

4.1 G4200-4C/8C or G4200C (Headend device)

Step 1：Connect to uplink Ethernet port G1, or G2, or XG1, or XG2

If you use Cat.5 cable access, please put Cat.5 into G1 or G2 port.
If you use fiber access, please put optical module into XG1, XG2 SFP port first, then connet fiber

Step 2：Connect coaxial cable to downlink coax port

Please coaxial cable to G.hn port;

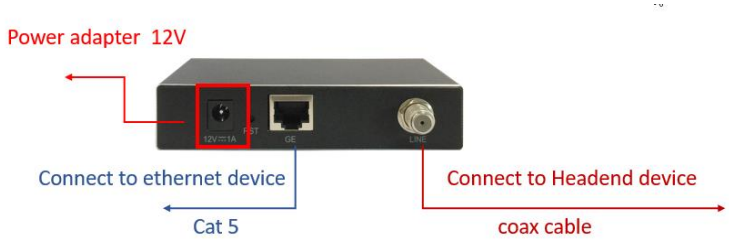
Step 3：Insert power cord and turn on the power switch.

4.2 G4201C (Remote device)

Step 1：Connect to uplink coax port.

Step 2：Connect to downlink Ethernet port.

Step 3：Insert power adapter.

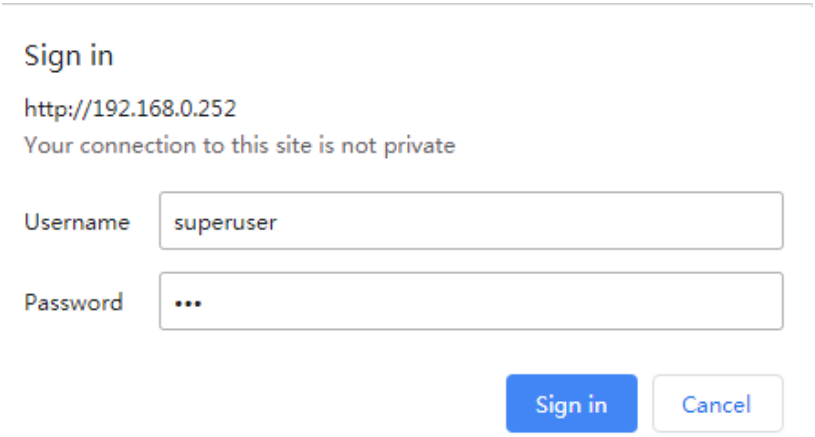


5. Login

Default configuration：

IP address: 192.168.0.252
IP subnet: 255.255.255.0
User name: superuser
Password: 123

You can visit the web based management page of the headend device, open a web browser and visit **http://192.168.0.252**, input username and password.



5.1 Change IP

You can change device IP address from “VLAN Management > VLAN Interface”

5.2 Change device time

You can change system time through the path Administration >SNTP.

SNTP Setting					
SNTP Mode	Server				
Server IP address	xxx.xxx.xxx.xxx				
Max Response Time(s)	5				
Time Zone Offset	GMT				
Time Offset(min)	0				
Year	2015	Month	7	Day	1
Hour	0	Minute	6	Second	59
Apply					

5.3 Save configuration

You can save configuration information through the pathAdministration >Save Configuration.

Save Current Configurations

Save

5.4 Check device basic information

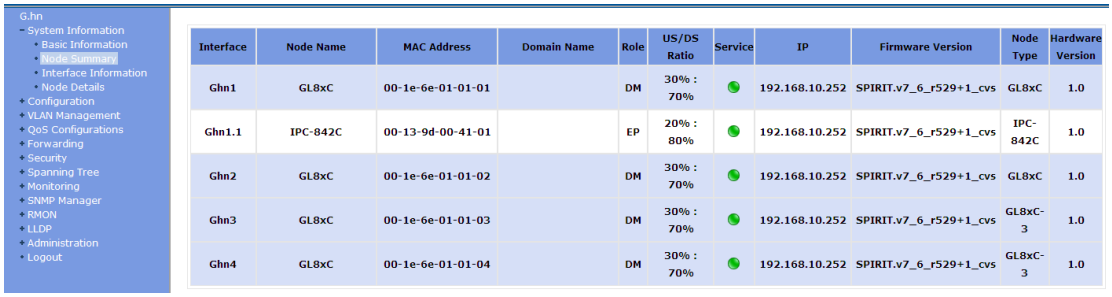
You can check device basic information through the path System Information>Basic Information.

System Information	
System Name	XXXxC
System Location	.xxxxxxxxxx.xxxxx
System Description	G.hn Managed Switch
System Contact	support@xxxxxxxx.com
MAC Address	00- XX-XX-XX -09-23
Hardware Version	1.0
Kernel Version	1.00
Software Version	2.845C
Boot Loader Version	1.000
Serial Number	R3A0138992

Temperature Status	36.5 degree Celsius
Fans Status	Normal
Powers Status	A: On, B: On
Local Date Time	Wed Jul 1 00:03:40 EDT 2015
Apply Refresh	

5.5 Check link status between local device and client device

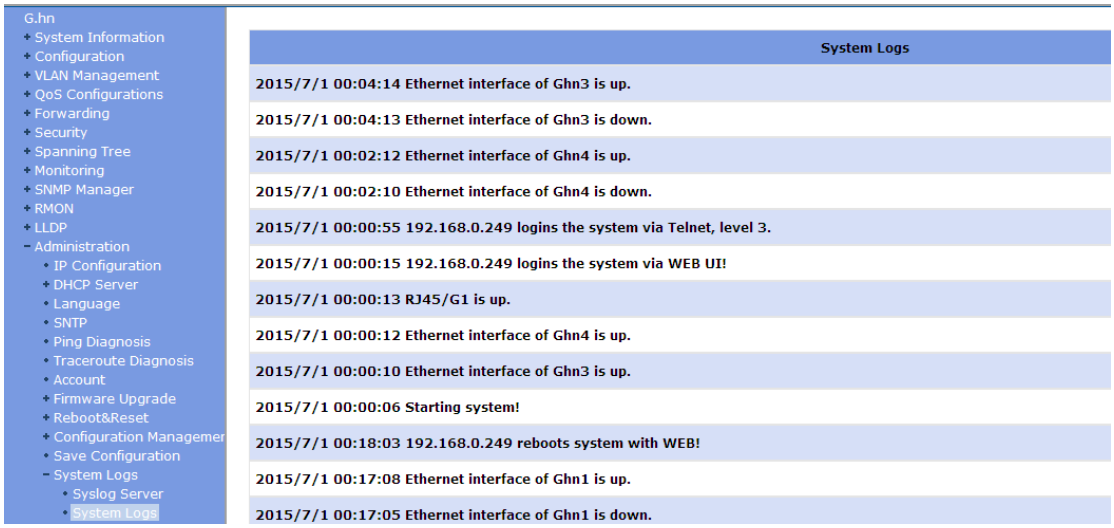
You can check node basic information through the path System Information>Node Summary.



Interface	Node Name	MAC Address	Domain Name	Role	US/DS Ratio	Service	IP	Firmware Version	Node Type	Hardware Version
Ghn1	GL8xC	00-1e-6e-01-01-01		DM	30% : 70%		192.168.10.252	SPIRIT.v7_6_r529+1_cvs	GL8xC	1.0
Ghn1.1	IPC-842C	00-13-9d-00-41-01		EP	20% : 80%		192.168.10.252	SPIRIT.v7_6_r529+1_cvs	IPC-842C	1.0
Ghn2	GL8xC	00-1e-6e-01-01-02		DM	30% : 70%		192.168.10.252	SPIRIT.v7_6_r529+1_cvs	GL8xC	1.0
Ghn3	GL8xC	00-1e-6e-01-01-03		DM	30% : 70%		192.168.10.252	SPIRIT.v7_6_r529+1_cvs	GL8xC-3	1.0
Ghn4	GL8xC	00-1e-6e-01-01-04		DM	30% : 70%		192.168.10.252	SPIRIT.v7_6_r529+1_cvs	GL8xC-3	1.0

5.6 Check system logs

You can check system logs through Administration > System Logs > System Logs.



System Logs
2015/7/1 00:04:14 Ethernet interface of Ghn3 is up.
2015/7/1 00:04:13 Ethernet interface of Ghn3 is down.
2015/7/1 00:02:12 Ethernet interface of Ghn4 is up.
2015/7/1 00:02:10 Ethernet interface of Ghn4 is down.
2015/7/1 00:00:55 192.168.0.249 logins the system via Telnet, level 3.
2015/7/1 00:00:15 192.168.0.249 logins the system via WEB UI!
2015/7/1 00:00:13 RJ45/G1 is up.
2015/7/1 00:00:12 Ethernet interface of Ghn4 is up.
2015/7/1 00:00:10 Ethernet interface of Ghn3 is up.
2015/7/1 00:00:06 Starting system!
2015/7/1 00:18:03 192.168.0.249 reboots system with WEB!
2015/7/1 00:17:08 Ethernet interface of Ghn1 is up.
2015/7/1 00:17:05 Ethernet interface of Ghn1 is down.