

# G4200C Quick Installation Guide



#### 1. Overview

The G4200 coaxial system includes two types of devices, the Headend Switch G4200C and the Client Units G4201C, G4204C, G4204C-W.

# 2. Hardware Descriptions



#### G4201C



## 2.1 G4200C (Local device)

G4200C is the device of multiplexer system, as shown in the following drawings. It supports one 1000-X/10000-X SFP/SFP+ uplink port, one 10/100/1000BT uplink port, six coax G.hn ports and one gigabit MGMT port.

## **2.1.1 Panel**

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.			
MGMT	10/100/1000BT RJ-45 port			
10/100/1000BT	10/100/1000BT Ethernet ports			
10G	1000-X/10000-X SFP/SFP+ ports			
G.hn1/G.hn2/G.hn3/	G.hn ports for data signal			
G.hn4/G.hn5/G.hn6				

The following table shows the LED descriptions.

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Label	Туре	Color	State	Description		
PWR	Power	Yellow	On	The power is on		
	status	Tellow	Off	The power is off		
SYS	System	Green	On	System is started		
	status	Green	Off	System has not started		
G.hn1/G.hn2/	G.hn link	Green	On	The corresponding port connection normal		
G.hn3/G.hn4/	status		Off	There is no connection to this port		
G.hn5/G.hn6	Status					
10G	Ethernet	Green	On	The corresponding port connection normal		
	link status		Off	there is no connection to this port		
MGMT / 10/100/1000BT	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	Corresponding port Data is transmitting		
				(sending/receiving)		

# 2.1.2 Physical and Environmental

• Dimension: 320mm\*234mm\*45mm

• Weight: 1.85Kg

Operating temperature: 0°C ~ 50°C
Storage temperature: -25°C ~ 80°C

Humidity: 10% ~ 90% RH Non-condensing
Maximum power consumption: ~40W



# 2.2 G4201C (Remote device)

## **2.2.1 Panel**

The panel is shown below:



The following table shows the port descriptions.

Label	Description			
LINE	G.hn input port supporting P2P and P2MP connections			
12VDC/1.0A Input	Support 12V DC power supply, connect to 12VDC power adapter			
GE	10/100/1000BT Ethernet port, Ethernet RJ-45 connection, Connect			
	to computer or other Ethernet device			

The following table shows the LED description:

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LED	LED color	Description				
PWR	Yellow	On	Power supply is normal			
		Off	The power is off or it is abnormal			
LINE	Green	On	G.hn port connection normal			
		Off	This G.hn port is not connected			
GE	Green	On	GE port is connected			
		Off	GE port is not connected			
		Blink	GE port Data is transmitting (sending/receiving)			

# 2.2.2 Physical and Environmental

Dimension: 111.5 \* 83.0 \* 24.5mm

Weight: 0.19 Kg

Operating temperature: 0°C ~ 40°C
Storage temperature: -25°C ~ 80°C

• Humidity: 5% ~ 95% RH Non-condensing

Maximum power consumption: <3W</li>



## 3 Hardware Installation

## 3.1 G4200C Package Contents

- 1\* G4200C indoor headend unit,
- 2\* mounting brackets,
- 10\* bracket screws,
- 4\* rack-mount screws,
- 4\* rack-mount cage nuts
- 1\* RS-232 serial console cable
- 1\* power cord.

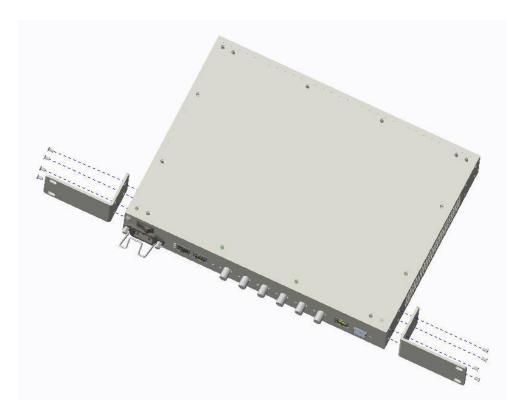


## 3.2 Mounting Procedures

# 3.2.1 Front Mounting on a Standard 19" Rack

a) Using eight bracket screws to fix the mounting brackets on left and right sides close to the front faceplate of G4200C, four bracket screws on each side





b) If there are screw holes on the rack rail, direct install the rack-mount screws through the holes of the mounting bracket to mount G4200C to the rack, two mounting screws on each side.



c) If there is no screw hole on the rack rail and the holes on the rack rail are square, first insert the cage nuts to the proper holes on the rail from the far side, then install the rack-mount screws through the holes of the mounting bracket onto the cage nuts to mount G4200C to the rack, two mounting screws on each side.

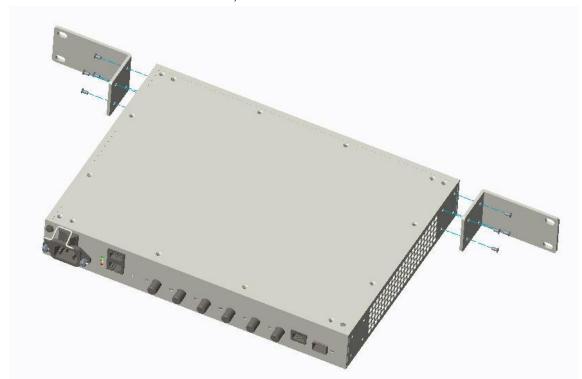




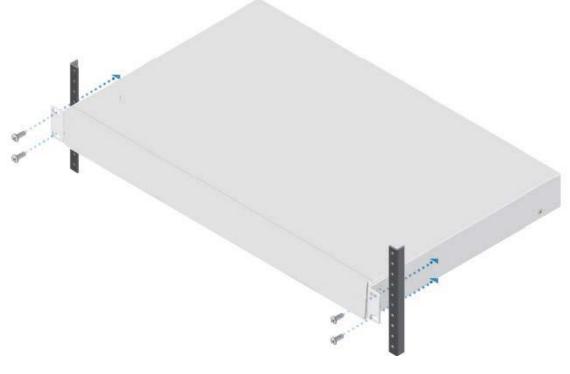


# 3.2.2 Rear Mounting on a Standard 19" Rack

a) Using eight bracket screws to fix the mounting brackets on left and right sides close to the back side of G4200C, four bracket screws on each side



b) If there are screw holes on the rack rail, direct install the rack-mount screws through the holes of the mounting bracket to mount G4200C to the rack, two mounting screws on each side.





c) If there is no screw hole on the rack rail and the holes on the rack rail are square, first insert the cage nuts to the proper holes on the rail from the far side, then install the rack-mount screws through the holes of the mounting bracket onto the cage nuts to mount G4200C to the rack, two mounting screws on each side.





# 3.2.3 Vertical Mounting on a Wall

a) Using eight bracket screws to fix the mounting brackets on left and right sides close to the front faceplate of G4200C, four bracket screws on each side

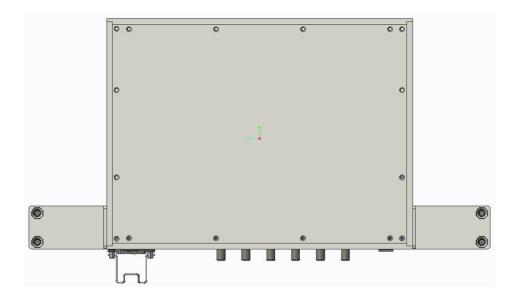


b) Using 8mm or 3/8" drill tip to drill four holes on the wall with the pattern below



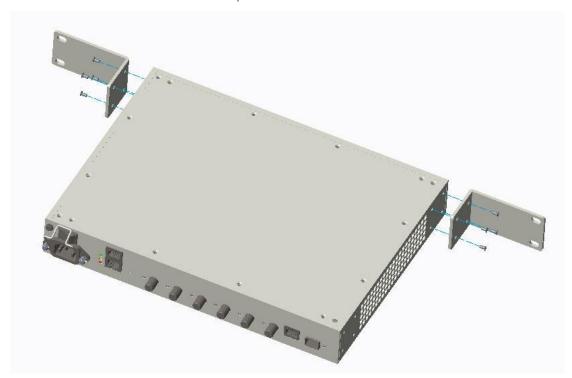
c) Nail in four wall-mount plastic nuts into four drill holes, then mount G4200C on the wall with four wall-mount screws.





# 3.2.4 Horizontal Mounting on a Wall

a) Using eight bracket screws to fix the mounting brackets on left and right sides close to the back side of G4200C, four bracket screws on each side



b) Using 8mm or 3/8" drill tip to drill four holes on the wall with the pattern below





c) Nail in four wall-mount plastic nuts into four drill holes, then mount G4200C on the wall with four wall-mount screws.



# 3.3 Connecting Fiber and Coaxial

a) Remove the dust cover on the SFP cage



b) Insert SFP transceiver into the SFP cage





c) Connect optical fiber to the SFP transceiver and coaxial cable to the G.hn port(s) respectively

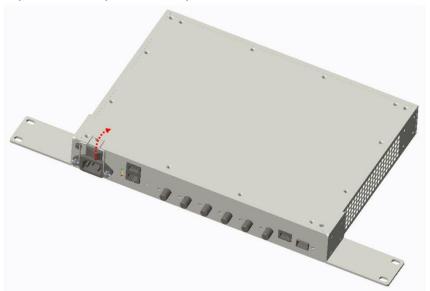


# 3.4 Connecting Power

After G4200C has been mounted either on a rack or on the wall and the optical fiber and coaxial cable have been connected properly, please follow the procedures below to power up the system.



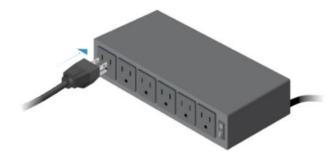
1. Lift up the power core clip toward the power switch,



2. Plug in the power cord onto power connector, then press down the power core clip



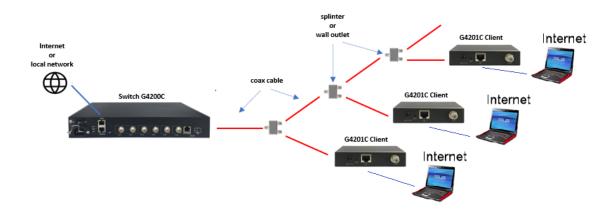
3. Insert the power core to power outlet



4. Switch on the power on the power outlet and on G4200C.



# **4 Application Diagram**



## 5 Service Installation

G4200C (Local device) + G4201C, G4204C, G4204C-W (Remote devices)

## 5.1 G4200C (Local Device)

Step 1: Connect to uplink Ethernet port, 10/100/1000BT or 10G

If you use CAT5 cable is available, please connect to 10/100/1000BT port.

If you use fiber is available, please insert a proper SFP/SFP+ module into the cage and connect the fiber to the SFP/SFP+ module.

- Step 2: Connect to downlink coaxial cable to the G.hn port.
- Step 3: Insert power cord and turn on the power switch.

The power LED will turn yellow, G.hn port green LEDs will be on shortly and then off. The SYS green LED on the headend switch will turn on within one minute. If the remote clients are connected and on, the LEDs on the G.hn ports will be on.

## 5.2 G4201C, G4204C, G4204C-W (Remote Devices)

- Step 1: Connect to uplink coaxial cable to the G.hn port.
- Step 2: Connect to downlink RJ-45 Ethernet port.
- Step 3: Insert power adapter.

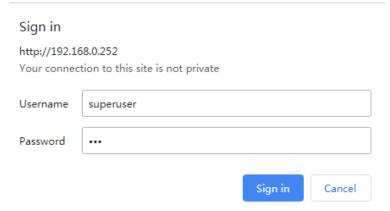


# **6 Web Management for Local Device**

Default configuration:

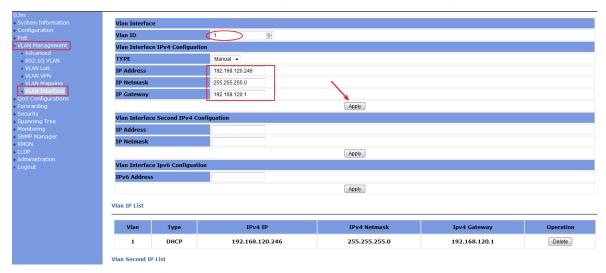
IP address: 192.168.0.252
 IP subnet: 255.255.255.0
 User name: superuser
 Password: 123

You can browse <a href="http://192.168.0.252">http://192.168.0.252</a>, input username and password to login WEB interface of G4200C as following:



## 6.1 Change IP

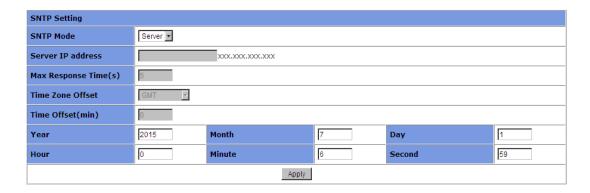
You can configure IP address for G4200C via WEB interface, Click "VLAN Management" -> "VLAN Interface" from the left menu to configure IP address as following:



## 6.2 Change Device Time

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





## 6.3 Save Configuration

After changing IP address, Device time and others configuration, you need to save configuration through the path Administration >Save Configuration. Otherwise, configuration will be lost once the device is power down or reboot.

## Save Current Configurations



#### 6.4 Check Device Basic Information

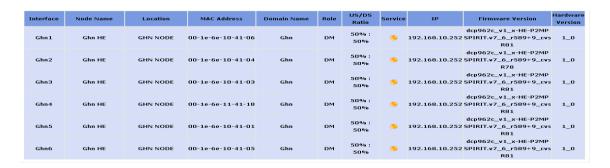
You can check device basic information through the path System Information>Basic Information.



## 6.5 Check Link Status between Local Device and Remote Device

You can click "System Information"-> "Node Summary" from left menu to check the G.hn information as following:





## 6.6 Check System Logs

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

