



SG 5200 10GE

Quick Start Guide

ANTlabs

r1.02

Package Contents

Please inspect your package. The following items should be included:

- 1 – SG 5200 hardware
- 1 – Power cable
- 1 – SG 5200 10GE Quick Start Guide
- 1 – RJ45 to Serial convertor
- 2 – Rack mount screws

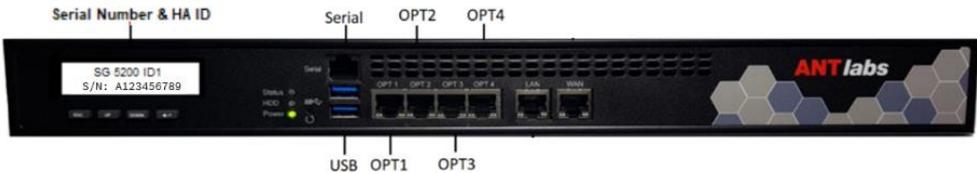
Hardware

Back Panel:



1. **LAN 10GE SFP Port** – Connect to downstream network.
2. **WAN 10GE SFP Port** – Connect to upstream network for internet access.
3. **VGA Port** – Connect to a monitor for troubleshooting.
4. **Power Button** – Toggle to ON position to power on machine.
5. **Serial Number**
6. **Power Connector** – Connect to 100 ~ 240V AC mains supply.

Front Panel:



1. **Serial Number & HA ID** – LCD screen displays serial number and HA ID after the SG 5200 software has booted up.
2. **Serial Port** - Allows direct serial console CLI access to SG 5200 during boot up. After SG 5200 software boots up, the port is used for PMS and no longer gives serial console CLI access.
3. **USB Ports** – Allows USB-serial console access to SG 5200 during troubleshooting.
4. **OPT1** – Connects two SG 5200 gateways in a High Availability (HA) setup.
5. **OPT2** – This can be used as a second physical WAN interface in the multi-WAN feature.
6. **OPT3** – Serves as Management Port.

7. **OPT4 and LAN** - These two ports shall be 802.3ad link-aggregated as one bonded interface for the downstream network.
8. **WAN** – Connects to the upstream network for client traffic to pass through.

Network Configuration

Below are the firewall rules that we need to open for SG5 gateway to communicate with ASP and license server.

Control Server - Port 443	Ta Authentication - Port 2912-2913
API Server - Port 8443	Old License Server - Port 80, 443
Ta Reporting - Port 2812-2813	ASP License Server - Port 443

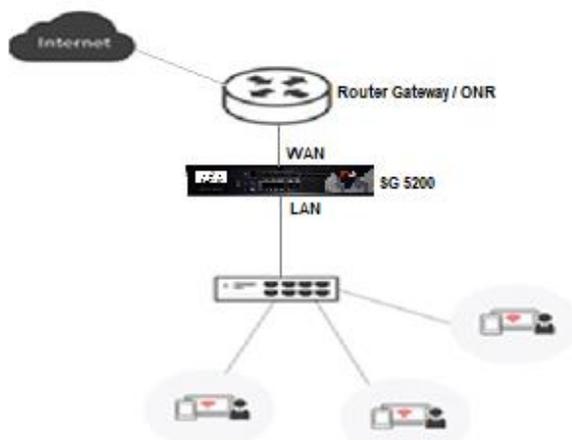
Onsite Gateway Installation

1. Locate the router gateway / optical Network Router at the premises.
2. Connect the WAN port of the gateway SG 5200 to downstream of the router gateway / optical network router as shown in diagram.

Note: The router will provide DHCP IP and allow SG 5200 to have internet access

3. Power on the gateway.

Note: After about a minute, you should see the WAN LED indicators light up, indicating connectivity between SG 5200 and the router.



At this point, the ASP organization admin needs to be informed that the gateway has been connected to router.

ASP Site Configuration

ASP admin GUI

Access your existing ASP cloud GUI. For ANTLabs as service provider, please access <https://asp-cloud.antlabs.com>

1. After login, go to **Assets > Overview** page.



On Overview page, go to **Gateways** section and click **Claim** to start claiming gateways via their hardware serial numbers

2. On the ASP admin GUI, go to **Assets > Gateways**.



On the Gateways page, look for this gateway and check its **Connection status** (last column). It should be **Up**.

Note: If the connection status is shown as **Down**, go to the gateway to check its internet connectivity.

3. Click on **Up** button. There should be 2 options to assign gateway to site. Use either one to assign the gateway.
 - a. Assign to new site, or
 - b. Assign to existing site.

After gateway assignment to site, clicking on Up button will reveal the **Connect to Gateway** option. Click on the option which redirects to site details page.

Click on **Connect to gateway** and follow the process to enable Remote Access, then connect to gateway that can be used in Step 6 below to access the gateway admin GUI.

4. Go to **Assets > Overview** page. Under **Sites** section, look for your site and click on the edit  icon (under **Actions** column) to assign site license.
5. Under the Service Management menu, you may further configure the Bandwidth, Plan, Location Portal and VLAN to meet your requirements.

Note: It takes about two minutes for these settings to sync to the gateway after you have saved them.

With the above steps, SG 5200 will be connected to the Internet, and the required settings synced down to the gateway. This gateway is ready to authenticate downstream clients to access the internet.

Gateway Admin GUI Configuration

- Go to **Gateway admin GUI** by browsing to <https://ezxcess.antlabs.com/admin> downstream of gateway or via the ASP admin GUI's Remote Access feature (ASP admin GUI's Gateways page > Up > Connect to Gateway).
- Click **"I Agree"** when prompted with the EULA. Then **login** with these credentials when presented with the admin login page:
 - User ID: root
 - Password: admin
- Go to **System** on the left menu. Click on **License**. Check that License Activated is **Yes** and you get your desired **License** and **Burst**.

License Information	
License Activated	Yes
License	30 devices
Burst	10
State	Normal operation
Hardware Serial Number	A123456789
Software Serial Number	02-6666-SG5-5200-0005472-00500-00500
Service Start	2022-01-19 11:50:11
Service Expiry	2022-03-24 11:50:11

You will also see the list of modules assigned to this gateway:

Installed Modules		
Date	Module name	Installed By
16/06/2021 07:26AM	RADIUS Support Module	ASP Module Activation
16/06/2021 07:26AM	PAN Module	ASP Module Activation
16/06/2021 07:26AM	Event Manager Module	ASP Module Activation
16/06/2021 07:26AM	Advanced QoS Module	ASP Module Activation
07/06/2021 02:03PM	Management Port Module	root
23/09/2015 03:01PM	High Availability Module	root

If you see License Activated is "Yes" but License is 0 devices, please go to ASP admin GUI to set the required site license.

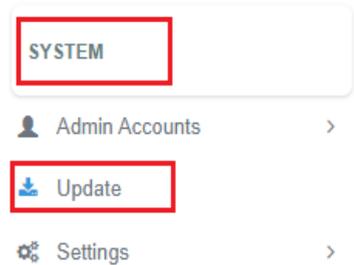
License Information

License Activated	Yes
License	0 devices
Burst	0

Updates

It is recommended to download and install the latest updates available for your gateway before using it. Administrators can use the online update feature for this. Make sure the gateway is connected to Internet before using this feature.

1. Login to the Gateway admin GUI. Go to **System > Update**.
2. Click on the **Check for Updates** button.
3. If there are new updates available, they will be listed on the page. Click on **Download All** to download all updates from the server.
4. After all updates are downloaded, click on the **Install Next Update** button to install the next update.



Date	Update name	Checksum	Status
06/03/2022 11:25AM	02.SG5000_test.plg	53b621b3e637d99fda5700fe8acdde5b	Downloaded

Buttons: Check for Updates, Download All, Install Next Update

Accessing Gateway GUI

You may access the gateway admin GUI via the following ports:

1. **LAN / OPT4** – Go to <https://ezxcess.antlabs.com/admin>
2. **WAN** – Go to https://<wan_ip>/admin. You may obtain the DHCP-acquired IP from the dashboard > Technical Details > WAN
3. **OPT3** – Go to <https://192.168.0.1/admin> where 192.168.0.1 is the out-of-box management port IP address

Technical Support

If you encounter technical problems, please contact our support team:

Hotline: +65 6100 7877

For US Customers: +1-904-430-8477

Email: tech-support@antlabs.com

URL: <http://www.antlabs.com/support/>

Please prepare the following information when you are contacting our technical support team:

- Name of contact person
- Company name
- Contact number
- Email address
- Serial number*
- IP address
- Current software update level
- Description of the problem (Attach a screenshot of the error if any)

*The SG 5200's serial number can be found on the LCD display at the front of the gateway and at the back of the gateway below the power switch, or you can get the information from the dashboard or license page of the admin GUI.