

# **GEPON Managed OLT Series**

**EPL-2220/4000/8000**

Quick Installation Guide

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## 1. Package Contents

Thank you for purchasing PLANET GEPON OLT EPL-2220/4000/8000. The descriptions of these models are as follows:

Models	GEPON ports	10/100/1000T RJ45 ports	1000X SFP slots	1G/10G SFP slots
EPL-2220	2	2	2	-
EPL-4000	4	4	-	4
EPL-8000	8	8	4	4

The term "**GEPON OLT**" refers to the Switch mentioned in this Quick Installation Guide.

The box should contain the following items:

- GEPON OLT x 1
- PX20 SFP Transceiver x 2/4/8 (for EPL-2220/4000/8000)
- Quick Installation Guide x 1
- Power Cord x 1
- Two Rack-mounting Brackets with Attachment Screws x 1 (set)
- Console Cable x 1

If any item is found missing or damaged, please contact your local reseller for replacement.

## 2. Requirements

PLANET GEAPON OLT provides a GUI utility and Web page to manage the system. You can also use the console cable with terminal emulator to manage the OLT.

The following equipment is necessary for further management:

- Subscriber PC is installed with Ethernet NIC (Network Card)
- **EMS** Software (Windows Platform)
- **Management Port** connection
  - Network cables -- Use standard network (UTP) cables with RJ45 connectors
- The above PC is installed with Web browser.
- **Serial Port Connection** (Terminal)
  - The above Workstations come with COM Port (DB9) or USB-to-RS232 converter.
  - The above Workstations have been installed with terminal emulator, such as Hyper Terminal included in Windows XP/2003.
  - Serial cable -- one end is attached to the RS232 serial port, while the other end to the console port of the OLT.



### Note

It is recommended to use Internet Explorer 8.0 or above to access the OLT. If the Web interface of the OLT is not accessible, please turn off the anti-virus software or firewall and then try it again.

### 3. EMS Installation

1. Download the EMS software from PLANET website (as shown in the QR code below). After unzipping the zip file, you will see the EMS-Server and EMS-Client execution files. Next, double-click the **EMS-Server** to install.
2. Once the Setup program starts running, please click the **“Next”** button for starting installation.

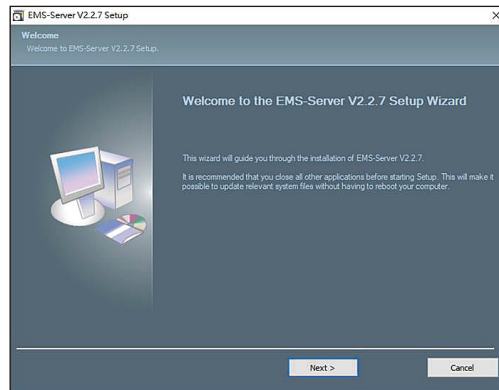


Figure 3-1: EMS-Server Setup Wizard Screen

3. During the installation, it will ask for the place to put the EMS folder.

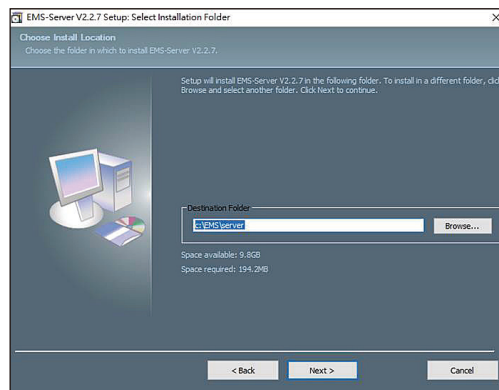
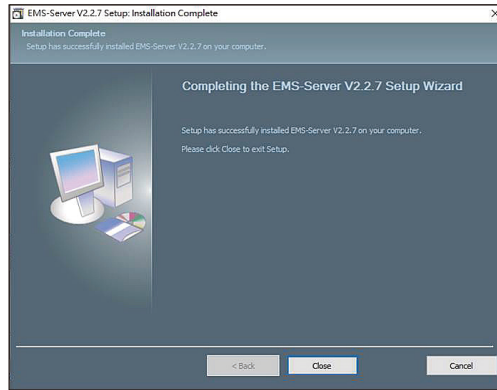


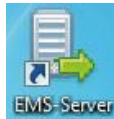
Figure 3-2: EMS-Server Folder Installation Screen

4. Click the **“Close”** button for completing the EMS-Server Setup.



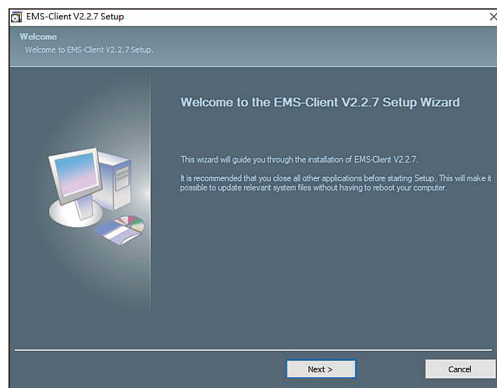
**Figure 3-3:** EMS-Server Installation Completing Screen

5. When the EMS-Server installation is done, the icon will appear on the desktop.



**Figure 3-4:** EMS-Server icon

6. Then double-click **EMS-Client** to install the utility. Once the Setup program starts running, please click the **“Next”** button for starting installation.



**Figure 3-5:** EMS-Client Setup Wizard Screen

7. During the installation, it will ask for the place to put the EMS folder.

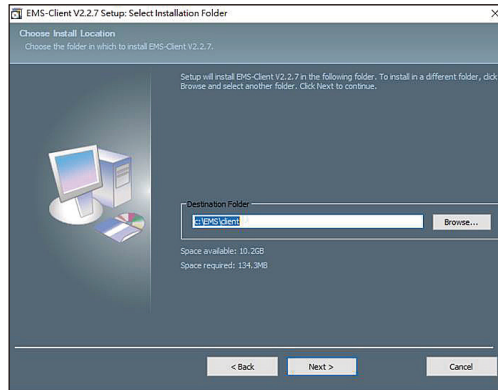


Figure 3-6: EMS-Client Folder Installation Screen

8. Click the "Close" button for completing the EMS-Client Setup.

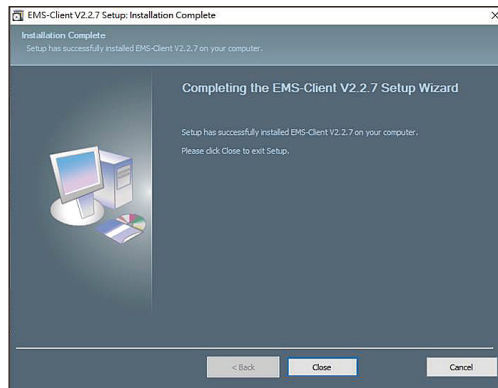


Figure 3-7: EMS-Client Installation Completing Screen

9. When the EMS-Client installation is done, the icon will appear on the desktop.

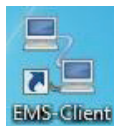


Figure 3-8: EMS-Client icon

## 4. Starting EMS Management

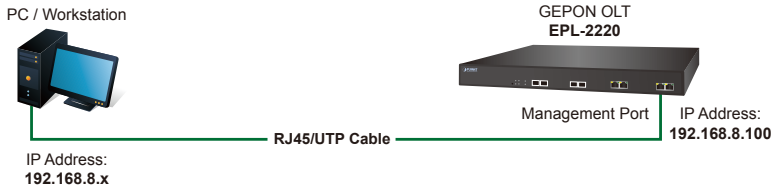


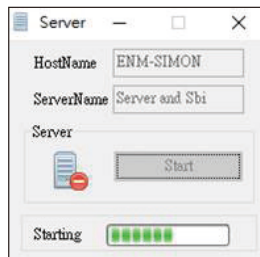
Figure 4-1: IP Management Diagram

The following shows how to start up the **EMS Management** of the GEAPON OLT. Please note the GEAPON OLT is configured through an Ethernet connection, making sure the manager PC must be set to the same **IP subnet address**.

For example, the default IP address of the GEAPON OLT is **192.168.8.100** (the factory default IP address), then the manager PC should be set to 192.168.8.x (where x is a number between 1 and 254, except 100), and the default subnet mask is 255.255.255.0.

### Logging to the GEAPON OLT

1. Double-click the EMS-Server icon on the PC desktop to start the EMS Server.



2. After the server started, please double-click the EMS-Client icon.
3. Enter the user name and password. Please enter the default user name "**root**", password "**root**", server "**127.0.0.1**" and port "**5188**" as screen in Figure 4-2 appears.

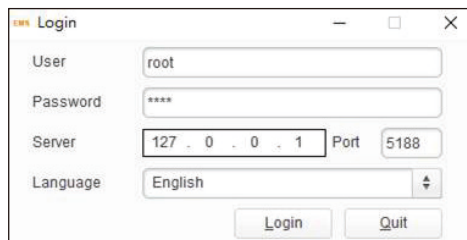
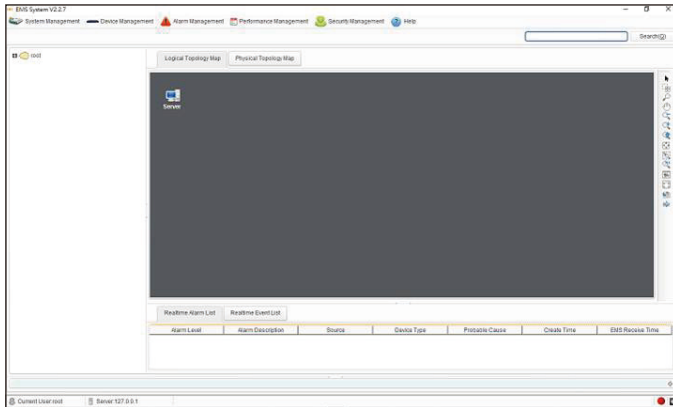


Figure 4-2: PLANET-EMS Icon and Login Window

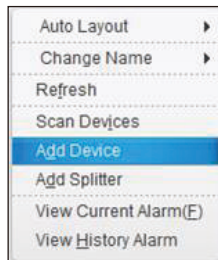


- After entering the user name and password, the EMS utility main screen will appear as in Figure 4-3.

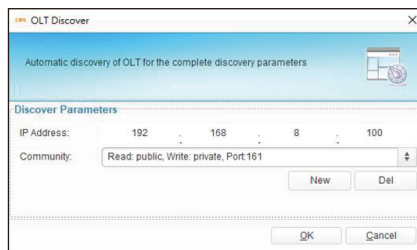


**Figure 4-3:** Main Screen of GEAPON OLT

- Right-click on the **"map"** and select **"Add Device"** to add the OLT.



- Enter the management IP of OLT and select Read community to public, Write community to private.



**Figure 4-4:** Enter IP of GEAPON OLT

## 5. Starting Web Management

The following shows how to start up the **Web Management** of the GEPON OLT. To configure the Web system, connect a UTP cable to an Ethernet port on a workstation and to the management port of the GEPON OLT. Note the OLT is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.

For example, the default IP address of the OLT is **192.168.8.100**, then the manager PC should be set to **192.168.8.x** (where x is a number between 1 and 254, except 100), and the default subnet mask is 255.255.255.0.

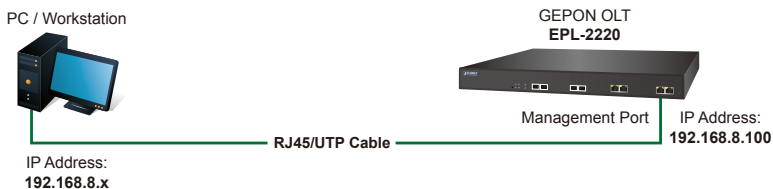


Figure 5-1: IP Management Diagram

### Logging in the GEPON OLT

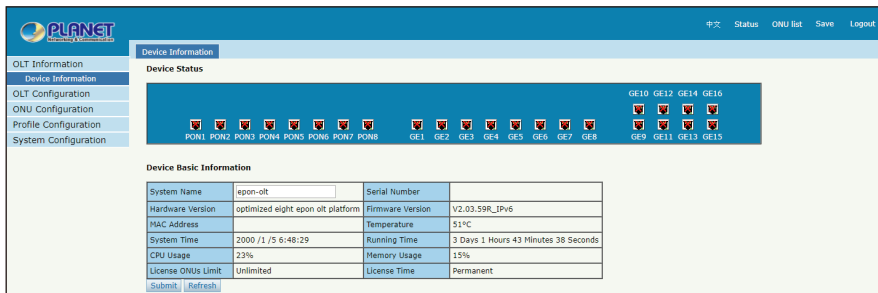
1. Use Internet Explorer 8.0 or above Web browser and enter IP address **<http://192.168.8.100>** (the factory default IP address or the one that you have changed in console) to access the Web interface.
2. When the following dialog box appears, please enter the default user name and password "**admin**" (or the password you have changed via console). The login screen in Figure 5-2 appears.

Default Username: **admin**  
Default Password: **admin**

The screenshot shows the 'OLT Web Management Interface' login page. It features a blue header with the title. Below the header, there are two input fields: 'Username' with the text 'admin' and 'Password' with masked characters '.....'. There are two buttons: 'Login' and 'Reset'. At the bottom, a footer contains the text 'Copyright © 2016 - 2028. All rights reserved.'

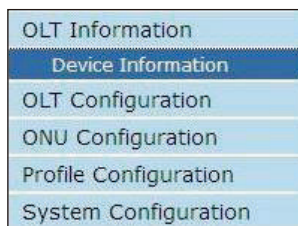
Figure 5-2: Login Screen

3. After entering the password, the main screen appears as Figure 5-3 shows.



**Figure 5-3:** Web Main Screen of OLT

The menu on the left of the Web page lets you access all the commands and statistics the OLT provides.



**Figure 5-4:** OLT Menu

Now, you can use the Web management interface to continue the OLT management or manage the OLT by console interface.

Please refer to the user's manual for more information.

## 6. Terminal Setup

To configure the system, connect a serial cable to a **COM port** on a PC or notebook computer and to RJ45 type of serial port of the GEAPON OLT.

A terminal program is required to make the software connection to the OLT.

1. Run terminal program on the OS.
2. When the following screen appears, make sure that the COM port should be configured as:

- Baud: 115200
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None

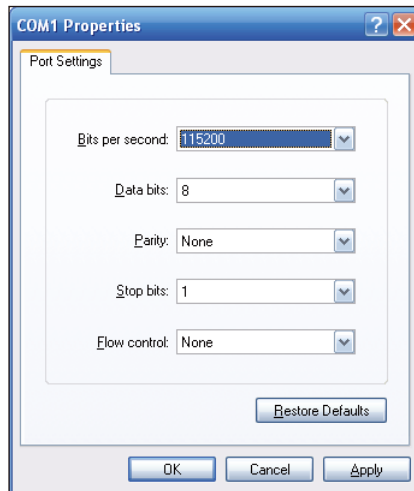


Figure 6-1: COM Port Configuration

## 7. Logging on to Console

Once the terminal is connected to the device, power on the GEAPON OLT and the terminal will display "running testing procedures". Then, the following message asks to log in user name and password. The factory default user name and password are shown as follows and the login screen in Figure 7-1 appears.

Username: **admin**  
Password: **admin**

```
Hello, this is epon olt platform (version 1.00).  
Copyright 2010-2018, All Rights Reserved.  
  
User Access Verification  
Login:
```

**Figure 7-1:** OLT Console Login Screen

The user can now enter commands to manage the OLT. For a detailed description of the commands, please refer to the following chapters.



### Note

1. For security reason, please change and memorize the new password after this first setup.
2. Only accept command in lowercase letter under console interface.

## 8. Configuring IP Address

The OLT is shipped with default IP address shown below.

```
IP Address: 192.168.8.100  
Subnet Mask: 255.255.255.0
```

To modify a new IP address for the OLT, please use the procedures as follows

### ■ Show the current IP Address

1. At the "(config-if-aux)#" prompt, enter "show aux ip address".
2. The screen displays the current IP address as shown in Figure 8-1.

```
epon-olt> enable  
Password:  
  
epon-olt# configure terminal  
epon-olt(config)# interface aux  
epon-olt(config-if-aux)# show aux ip address  
ip address 192.168.8.100 255.255.255.0  
epon-olt(config-if-aux)# _
```

Figure 8-1: IP Information Screen

### ■ Configuring IP Address

3. At the "(config-if-aux)#" prompt, enter the following command and press <Enter> as shown in Figure 8-2.

```
epon-olt(config-if-aux)# ip address 192.168.1.100 255.255.255.0  
epon-olt(config-if-aux)#
```

The previous command would apply the following settings for the Managed Switch.

```
IP Address: 192.168.1.100  
Subnet Mask: 255.255.255.0
```

```
epon-olt# configure terminal  
epon-olt(config)# interface aux  
epon-olt(config-if-aux)# show aux ip address  
ip address 192.168.8.100 255.255.255.0  
epon-olt(config-if-aux)# ip address 192.168.1.100 255.255.255.0  
epon-olt(config-if-aux)#
```

Figure 8-2: Configuring IP Address Screen

4. Repeat step 1 to check if the IP address is changed.

### ■ Store current OLT configuration

5. At the “**(config-if-aux)#**” prompt, enter the following command and press **<Enter>**.

```
epon-olt(config-if-aux)# write
```

```
epon-olt(config-if-aux)# show aux ip address
ip address 192.168.1.100 255.255.255.0
epon-olt(config-if-aux)# write
2000/01/01 01:37:07 System Config Save      save config by command
Configuration saved to /mnt/custfs/usrcfg.conf
epon-olt(config-if-aux)#
```

**Figure 8-3:** Saving Current Configuration Command Screen

If the IP is successfully configured, the OLT will apply the new IP address setting immediately. You can access the Web interface of the OLT through the new IP address.



#### Note

If you are not familiar with the console command or the related parameter, enter “**help**” anytime in console to get the help description.

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## **9. Customer Support**

Thank you for purchasing PLANET products. The above steps show the simple installation and configuration of the EPL-2220/4000/8000. For further configurations of EMS Utility, please refer to the user manual in the PLANET website. If you have further questions, you can browse our online FAQ resource on the PLANET Website first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:

<https://www.planet.com.tw/en/support/faq?method=category&c1=5>

Support team mail address:

[support@planet.com.tw](mailto:support@planet.com.tw)

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