Multi-port Coax + 2-port 10/100/1000T + 2-port 100/1000X SFP Long Reach PoE over Coaxial Managed Switch

LRP-822CS/LRP-1622CS

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET Multi-port Coax + 2-port 10/100/1000T + 2-port 100/1000X SFP Long Reach PoE over Coaxial Managed Switch.

The descriptions of these models are shown below:

LRP-822CS	8-port Coax + 2-port 10/100/1000T + 2-port 100/1000X SFP Long Reach PoE over Coaxial Managed Switch
LRP-1622CS	16-port Coax + 2-port 10/100/1000T + 2-port 100/1000X SFP Long Reach PoE over Coaxial Managed Switch

"LRP Managed Switch" is used as an alternative name in this quick installation guide.

Open the box of the LRP Managed Switch and carefully unpack it. The box should contain the following items:

Package Item / Model Name		LRP-822CS	LRP-1622CS
The LRP Managed Switch		1	1
Quick Installation Guide		1	1
RJ45 to RS232 Console Cable		1	1
Rubber Feet		4	4
Power Cord		1	1
Dust Caps	BNC Female	8	16
	SFP	2	2
Warning Sticker		8	16
Two Rack-mounting Brackets with Attachment Screws		■	■

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

2. Requirements

- Workstations running Windows 10/XP/2003/Vista/7/8/2008, MAC OS X or later, Linux, UNIX, or other platforms are compatible with TCP/IP protocols.

- Workstations are installed with Ethernet NIC (Network Interface Card).

- **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 Tera Term, PuTTY or 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 LRP Managed Switch.

- **Ethernet Port Connection**

  - ➢ Network cables -- Use standard network (UTP) cables with RJ45 connectors.

  - ➢ The above PC is installed with Web browser.

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

3. Terminal Setup

To configure the system, connect a serial cable to a **COM port** on a PC or notebook computer and to the RJ45 type of the console port of the LRP Managed Switch.
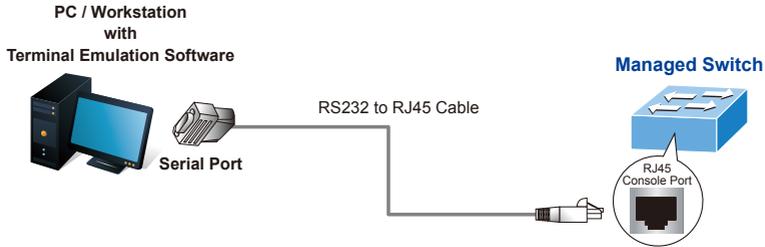
Figure 3-1: LRP Managed Switch Console Connectivity

A terminal program is required to make the software connection to the LRP Managed Switch.

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 3-2: COM Port Configuration

4. Logging on to the Console

Once the terminal is connected to the device, power on the LRP Managed Switch, 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 4-1 appears.

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

```
Press any key to continue
Username: admin
Password: *****
LRP-series#
```

Figure 4-1: LRP Managed Switch Console Login Screen

The user can now enter commands to manage the LRP Managed Switch. 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.

5. Configuring IP Address via the Console

The LRP Managed Switch is shipped with default IP address as follows:

IP Address: **192.168.0.100**
Subnet Mask: **255.255.255.0**

To check the current IP address or modify a new IP address for the LRP Managed Switch, please use the procedures as follows:

■ Show the current IP address

1. At the **"LRP-series#"** prompt, enter **"show ip"**.

2. The screen displays the current IP address, Subnet Mask and Gateway as shown in Figure 5-1.

```
Press any key to continue
Username: admin
Password: *****
LRP-series# show ip
IP Address: 192.168.0.100
Subnet Netmask: 255.255.255.0
Default Gateway: 192.168.0.254
```

Figure 5-1: IP Information Screen

■ Configuring IP address

3. At the **"LRP-series#"** prompt, enter **"configure"**.

4. At the **"LRP-series (config)#"** prompt, enter the following command and press **<Enter>** as shown in Figure 5-2.

LRP-series (config)# **ip address 192.168.1.100 mask 255.255.255.0**

LRP-series (config)# **ip default-gateway 192.168.1.254**

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

IP Address: **192.168.1.100**
Subnet Mask: **255.255.255.0**
Gateway: **192.168.1.254**

```
Press any key to continue
Username: admin
Password: *****
LRP-series# configure
LRP-series(config)# ip address 192.168.1.100 mask 255.255.255.0
LRP-series(config)# ip default-gateway 192.168.1.254
```

Figure 5-2: IP Address Screen

5. Repeat Step 1 to check if the IP address has changed.

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

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

6. Saving the Configuration via the Console

In the LRP Managed Switch, the running configuration file stores in the RAM. In the current version, the running configuration sequence running-config can be saved from the RAM to FLASH by **writing** the command or **copying** the **running-config startup-config** command, so that the running configuration sequence becomes the startup configuration file, which is called configuration save.

1. At the **"LRP-series#"** prompt, enter **"copy running-config startup-config"** as shown in Figure 6-1.

```
Press any key to continue
Username: admin
Password: *****
LRP-series#|copy running-config startup-config|
Success
```

Figure 6-1: The Configuration Screen

7. Starting Web Management

The following shows how to start up the **Web Management** of the LRP Managed Switch. Note the LRP Managed Switch 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 LRP Managed Switch is *192.168.0.100*, then the manager PC should be set to **192.168.0.x** (where x is a number between 1 and 254, except 100), and the default subnet mask is 255.255.255.0.
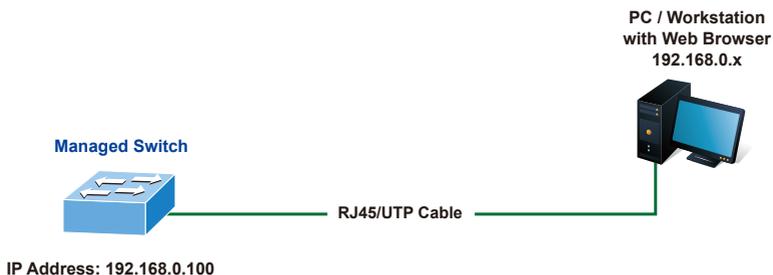
Figure 7-1: IP Management Diagram

■ Logging in to the LRP Managed Switch

1. Use Internet Explorer 8.0 or above Web browser and enter IP address *http://192.168.0.100* to access the Web interface.

2. When the following dialog box appears, please enter the default user name and password **"admin"**. The login screen in Figure 7-2 appears.

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

Figure 7-2: Login Screen

3. After entering the password, the main screen appears as Figure 7-3 shows.

Figure 7-3: Web Main Screen of LRP Managed Switch

The Switch Menu on the left of the Web page lets you access all the commands and statistics the LRP Managed Switch provides.

Figure 7-4: Switch Menu

Now, you can use the Web management interface to continue the Switch management.

Please refer to the user's manual for more.

8. Starting Long Reach PoE Communication

The following shows how to start up the **Long Reach PoE Communication** of the LRP Managed Switch from Web Management.

> The LRP Managed Switch is configured **DISABLED** Long Reach PoE function as default.
>
> Note

■ Connect the Coaxial Cable

1. Insert the coaxial cable with one side being the 75ΩBNC plug connector into the Long Reach Ethernet coaxial interface.

2. Connect the other end of the cable to a device with **Long Reach Ethernet coaxial extender** installed.

3. Tighten the BNC male connector gently.

LRP-822CS   5C2V/RG6 75Ω Coaxial Cable   *LRP-101CE*   RJ45   PoE Camera

4. Enable Long Reach Power over Ethernet function for all LRP ports from Web UI.

5. Check the LNK LED of the Long Reach Power over Ethernet interface on the front of the LRP Managed Switch. Ensure that the Long Reach Power over Ethernet interface is operating correctly.

| Note | 1. Before installation, please consider the distance and watts value demand for PD devices. The LRP Managed Switch and LRP Extender PoE output capacity and upload/download performance depend on the length of coaxial cable. You can refer to manual chapter 1.5 for the information. |
| | 2. As there are various resistance values in the category of RG-59/U or RG-6/U cable, the actual data rate will vary on the quality of the copper wire and environmental factors. |

■ Removing the Connected Coaxial Cable

1. Make sure there is no network activity anymore.

2. Disable Long Reach Power over Ethernet function for all LRP ports from Web UI.

3. Loosen the BNC male connector gently.

4. Pull out the coaxial cable gently.
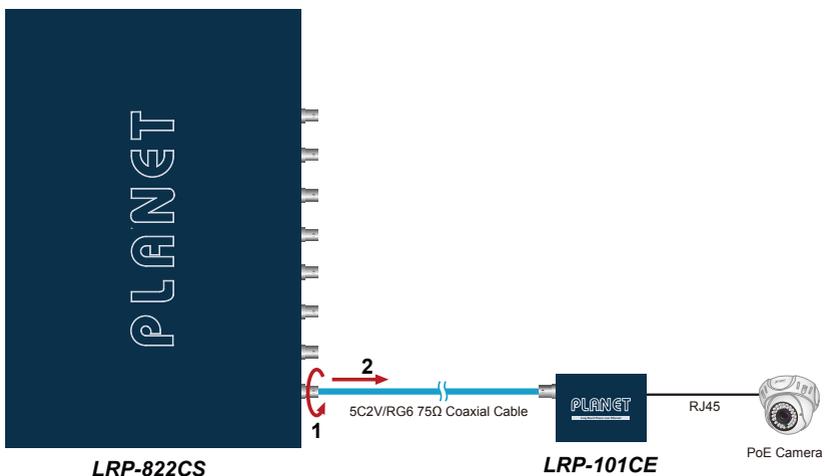
Note	Never pull out the coaxial cable without first disabling Long Reach Power over Ethernet function for the port from Web UI. Directly pulling out the coaxial cable could damage the Long Reach Ethernet coaxial extender and the BNC female connector of the LRP Managed Switch.

Caution	1. The package contains warning stickers, which should be stuck on the coaxial cable connector before using PLANET LRP-822CS / LRP-1622CS and LRP extender. If connected with a third-party equipment, it might cause damage to the equipment.

Please stick the sticker on the connector going to the LRP Extender

⚠ **Warning:** This side of connector contains electric power. Please be careful before plugging into the device.

⚠ **Warning:** This side of connector contains electric power. Please be careful before plugging into the device.

2. When the LRP PoE port is enabled, there will be electricity in central pin of the coaxial cable. Do not touch central pin or connect this end to any third-party equipment.

⚠ **Do Not Touch the Center Pin**

9. Saving Configuration via the Web

In the LRP Managed Switch, the running configuration file stores in the RAM. In the current version, the running configuration sequence of running-config can be saved from the RAM to FLASH by **"Save Configurations to FLASH"** function, so that the running configuration sequence becomes the startup configuration file, which is called configuration save.

To save all applied changes and set the current configuration as a startup configuration, the startup-configuration file will be loaded automatically across a system reboot.

1. Click **"Save > Save Configurations to FLASH"** to log in "Configuration Manager" Page.

2. Press the **"Apply"** button to save running configuration to startup configuration.

10. Recovering Back to Default Configuration

■ **IP Address has been changed or admin password has been forgotten –**

To reset the IP address to the default IP Address **"192.168.0.100"** or reset the log in password to default value, press the hardware **reset button** on the front panel for about **10 seconds**. After the device is rebooted, you can login the management Web interface within the same subnet of 192.168.0.xx.
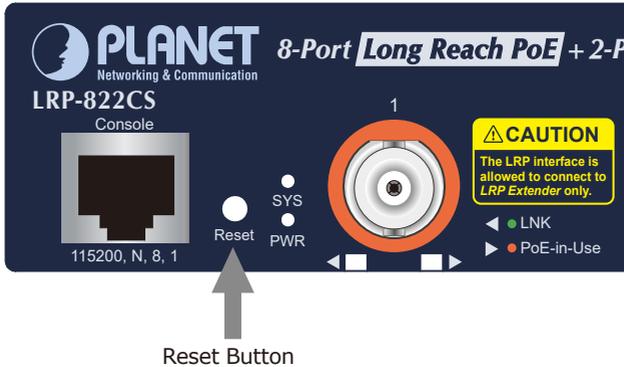
Figure 10-1: LRP-822CS Reset Button
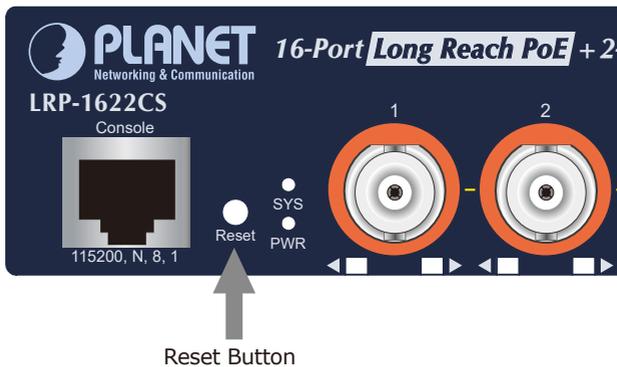
Figure 10-2: LRP-1622CS Reset Button

11. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource and User's Manual on PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:
http://www.planet.com.tw/en/support/faq

Switch support team mail address:
support@planet.com.tw

LRP-822CS/LRP-1622CS User's Manual:
http://www.planet.com.tw/en/support/download.php?type1=1&model=&type=3

(Please select your switch model name from the Product Model drop-down menu)