Layer 3 24-Port 10G SFP+ + 6-Port 100G QSFP28 Managed Data Center Switch

DCS-7342-24X6C

Layer 3 48-Port 25G SFP28 + 8-Port 100G/40G QSFP28 Managed Data Center Switch

DCS-7342-48Y8C

Layer 3 32-Port 100G QSFP28 Managed Data Center Switch

DCS-7342-32C

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET Layer 3 **Managed Data Center Switches, DCS-7342-Series** (DCS-7342-24X6C/DCS-7342-32C/DCS-7342-48Y8C). Unless specified, **"Managed Switch"** mentioned in this Quick Installation Guide refers to the DCS-7342-24X6C, DCS-7342-32C and DCS-7342-48Y8C.

Model	Description
DCS-7342-24X6C	Layer 3 24-Port 10G SFP+ + 6-Port 100G QSFP28 Managed Data Center Switch
DCS-7342-32C	Layer 3 32-Port 100G QSFP28 Managed Data Center Switch
DCS-7342-48Y8C	Layer 3 48-Port 25G SFP28 + 8-Port 100G/40G QSFP28 Managed Data Center Switch

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

Item \ Model	DCS-7342-24X6C	DCS-7342-32C	DCS-7342-48Y8C
QR Code Sheet	■	■	■
RS232 to RJ45 Console Cable	■	■	■
Rack Mount Accessory Kit	■	■	■
AC Power Cord	2	2	2
SFP Dust Cap	30	32	56
RJ45 Cable	1	1	1
Grounding wire	1	1	1

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

2. Switch Management

To set up the Managed Switch, the user needs to configure the Managed Switch for network management. The Managed Switch provides two management options: **Out-of-Band Management and In-Band Management**.

■ Out-of-Band Management

Out-of-band management is the management through console interface. **Generally, the user will use out-of-band management for the initial switch configuration**, or when in-band management is not available.

■ In-Band Management

In-band management refers to the management by logging in to the Managed Switch using Telnet or using SNMP management software to configure the Managed Switch. In-band management enables the management of the Managed Switch to attach some devices to the Switch. The following procedures are required to enable in-band management:

1. Log on to console.
2. Assign/Configure IP address.
3. Create a remote login account.
4. Enable Telnet server on the Managed Switch.

In case in-band management fails due to Managed Switch configuration changes, out-of-band management can be used for configuring and managing the Managed Switch.

3. Requirements

- **Workstations** running Windows 10/11, macOS 10.16 or later, Linux, UNIX, or other platforms that 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 emulators, such as Tera Term or PuTTY.
  - Serial cable -- One end is attached to the RS232 serial port, while the other end to the console port of the Managed Switch.
- **Management Port Connection**
  - Network cables -- Use standard network (UTP) cables with RJ45 connectors.
  - The above PC is installed with Tera Term or PuTTY.

4. Terminal Setup

To configure the system, connect a serial cable to a **COM port** on a PC or notebook computer and to serial (console) port of the Managed Switch. The console port of the Managed Switch is DCE already, so that you can connect the console port directly through PC without the need of Null Modem.

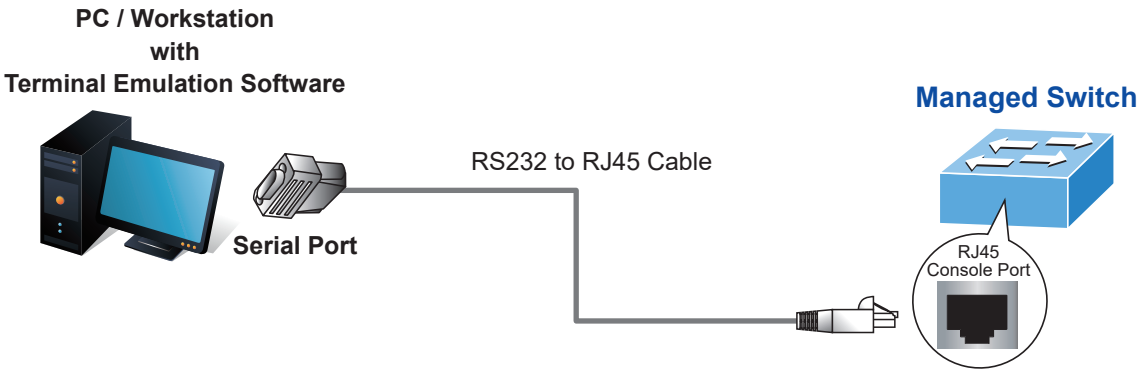

Figure 4-1: Managed Switch Console Connectivity

A terminal program is required to make the software connection to the Managed Switch. The Tera Term program may be a good choice. The Tera Term can be accessed from the **Start** menu.

1. Click **START** menu, then **Programs**, and then **Tera Term**.
2. When the following screen appears, make sure that the COM port should be configured as:

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

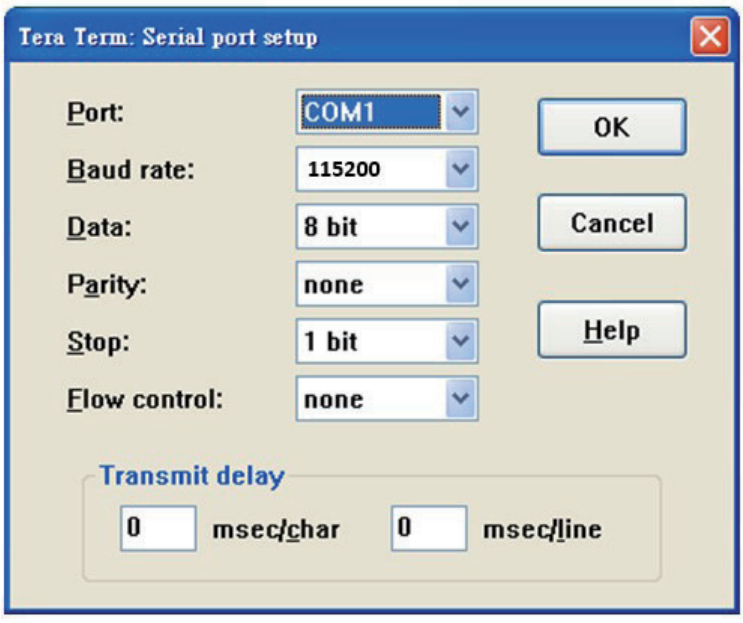

Figure 4-2: Tera Term COM Port Configuration

4.1 Logging on to the Console

Once the terminal is connected to the device and the Managed Switch is powered on, the terminal will display the message **"running testing procedures."** After completing the testing, the factory default username and password are shown as follows.

```
Username: admin
Password: sw + the last 6 characters of the MAC ID in lowercase
```

Find the MAC ID on your device label. The default password is "sw" followed by the last six lowercase characters of the MAC ID.

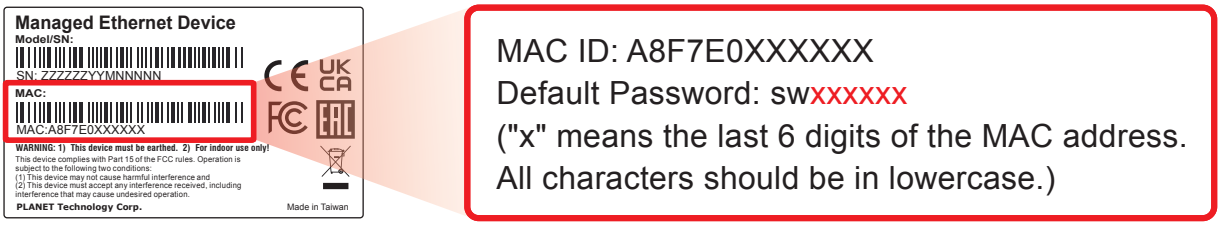

Figure 4-3: MAC ID Label

Enter the default username and password and then set a new password according to the rule-based prompt and confirm it. Upon success, press any key to return to the login prompt. Log in with "admin" and the "new password" to access CLI.

```
Username: admin
Password: ********
Switch#
```

Figure 4-4: Create a New Password and Login Screen

The user can now enter commands to manage the 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.

4.2 Configuring IP Address

The IP address configuration commands for **VLAN1 interface** are listed below. Before using in-band management, the Managed Switch must be configured with an IP address by out-of-band management (i.e. console mode). The configuration commands are as follows:

```
Switch# config
Switch(config)# interface vlan 1
Switch(config-vlanif-1)# ip address 192.168.0.253 255.255.255.0
```

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

IPv4 Address: 192.168.0.253

Subnet Mask: 255.255.255.0

```
Switch(config-if-vlan1)#ip address 192.168.0.253 255.255.255.0
Switch(config-if-vlan1)#exit
```

Figure 4-5: Configuring IPv4 Address Screen

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

■ Show the current IP address

1. On **"Switch#"** prompt, enter **"show ip interface brief"**.
2. The screen displays the current IP address, subnet mask and gateway as shown in Figure 4-6.

```
Switch#sh ip in b
Index      Interface              IP-Address          Protocol   VRF
161        Ethernet0              192.168.1.1/24      up         Not bound
11001      Vlan1                  192.168.0.253/24    down       Not bound
17500      Loopback               127.0.0.1/8         up         Not bound
```

Figure 4-6: Showing IP Information Screen

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

Note

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

4.3 Configuring a 25G SFP28 Port for 10G SFP+ Transceivers

For DCS-7342-48Y8C only

The Managed Switch supports both **25G** SFP28 and **10G** SFP+ transceivers with manual configuration, with the default SFP28 port speed set to 25Gbps. For example, to establish the fiber connection with 10G SFP+ transceiver port **10gigaethernet 1/0/1**, the following command configuration is required:

```
DCS-7342-48Y8C#con t
DCS-7342-48Y8C(config)#int eth 1/0/1
DCS-7342-48Y8C(config-if-ethernet1/0/1)#speed-duplex force10G-auto
DCS-7342-48Y8C(config-if-ethernet1/0/1)#exit
DCS-7342-48Y8C(config)#
```

Figure 4-7: Setting 10GBASE-X Screen

4.4 Configuring a 100G QSFP28 Port for 40GBASE-X Transceivers

The Managed Switch supports both **40GBASE-X** and **100GBASE-X** SFP transceivers via manual configuration, with the default SFP+ port speed set to 100Gbps. Before configuring the port, ensure that the 40G QSFP fiber is connected. For example, to establish the fiber connection with 40GBASE-X SFP transceiver on port **100gigaethernet 1/0/1**, the following command configuration is required:

```
DCS-7342-24X6C#
DCS-7342-24X6C#con t
DCS-7342-24X6C(config)#int eth 1/0/25
DCS-7342-24X6C(config-if-ethernet1/0/25)#speed-duplex force40G-auto
```

Figure 4-8: Setting 40GBASE-X Screen

4.5 Saving the Configuration

In 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 **"write file"** command, so that the running configuration sequence becomes the start-up configuration file, which is called configuration save.

Switch# **write file**

```
DCS-7342-24X6C#write
***** 100% *****  te current startup-config configuration [Y/N]:y
%Aug 19 08:56:55 2071 Write configuration successfully!

Write running-config to current startup-config successful
```

Figure 4-9: Write Screen

5. SSH Login

The Managed Switch also supports SSHv2 for remote management.

By default, the SSH service is disabled.

To enable SSH login, users must first assign an IP address to the management port via the console, then execute the `ssh-server` command to start the SSH service.

There is no default IP address or default login credentials provided by the system.

Use the following login credentials when accessing the switch via SSH:

Username: **Use the same username created during the initial console setup**
Password: **Use the same password created during the initial console setup**

The following example shows the complete steps to enable SSH login on the switch, including assigning an IP address to the management port and starting the SSH daemon (sshd) via the console.

```
DCS-7342-48Y8C#con t
DCS-7342-48Y8C(config)#ssh-server enable
ssh is enabled successfully.
DCS-7342-48Y8C(config)#exit
```

Figure 5-1: SSH Setup via Console

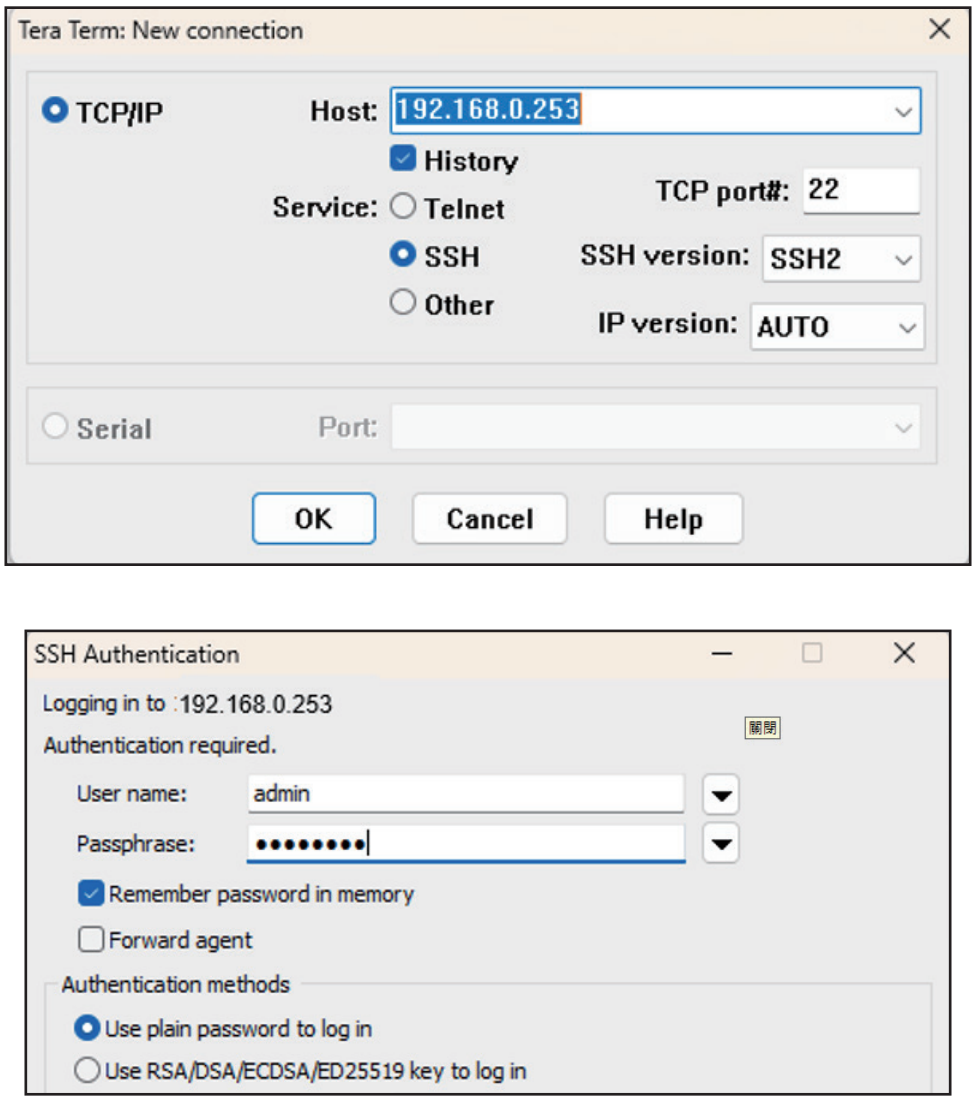

Figure 5-2: SSH Login Authentication Process

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

6. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource at the PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET support team.

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

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

DCS-7342-24X6C/DCS-7342-32C/DCS-7342-48Y8C User's Manual:
https://www.planet.com.tw/en/support/download.php?view=3&key=DCS-7342#list

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