



Fiber Optical Transceiver Chassis

Quick Installation Guide

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Applicable Models

This manual is applicable to the models listed in the following table.

Chassis Model	Compatible Fiber Optical Transceivers
DS-3K02-14	DS-3D01T-A(B), DS-3D01R-A(B), DS-3D501T-A, DS-3D501R-A, DS-3D501T-3, DS-3D501R-3, etc.

Symbol Conventions

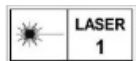
The symbols that may be found in this document are defined as follows.

Symbol	Description
 Note	Provides additional information to emphasize or supplement important points of the main text.
 Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instructions

Danger

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The device must be connected to an earthed mains socket-outlet.
- The socket-outlet shall be installed near the device and shall be easily accessible.
- Do not touch the bare components (such as the metal contacts of the inlets) and wait for at least 5 minutes, since electricity may still exist after the device is powered off.



CLASS 1 LASER PRODUCT

Note

- The device shall not be exposed to water dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the device.
- Provide a surge suppressor at the inlet opening of the device under special conditions such as the mountain top, iron tower, and forest.
- Ensure correct voltage and wiring of the terminals for connection to mains supply.

- No naked flame sources, such as lighted candles, should be placed on the device.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains. The openings shall never be blocked by placing the device on a bed, sofa, rug, or other similar surface.
- Keep a proper distance around the device for sufficient ventilation.
- This device is suitable for mounting on concrete or other non-combustible surface only to avoid fire hazard.
- The interface varies with the models. Please refer to the product datasheet for details.
- Make sure that the power has been disconnected before you wire, install, or disassemble the device.
- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

Chapter 1 Introduction

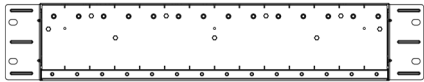
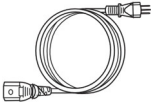
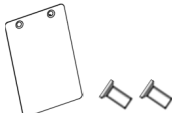
1.1 Product Introduction

DS-3K02-14 is a fiber optical transceiver chassis that can support 14 units of fiber optical transceivers at the same time for unified management and maintenance. The chassis requires no debugging and is plug-and-play. It adopts a 6 kV anti-surge built-in switching power supply design, providing a safe and stable power output.

1.2 Packing List

Please check if the package is damaged first. If the package is intact, unpack it and check whether the accessories provided with the product are available by referring to the packing list. Then, you can continue to install the chassis.

Table 1-1 Packing List

Accessory	Example	Quantity
Fiber Optical Transceiver Chassis		× 1
AC Power Cord		× 1
Baffle Plate Kit  Note A baffle plate kit contains 1 baffle plate and 2 M3 mounting screws.		× 4
Retainer Plate		× 14
Quick Installation Guide		× 1
Regulatory Compliance and Safety Information		× 1

Chapter 2 Installation

2.1 Pre-Installation Preparation

- Please wear anti-static wristbands or gloves and prepare a screwdriver before installation.
- Keep the room well-ventilated. Leave at least 10 cm heat dissipation space around the chassis.

2.2 Installation Procedure



The following figures are for illustration only. The actual device prevails.

Step 1 Fix the retainer plate onto the fiber optical transceiver.

- Use a screwdriver to remove the two screws on the side panel (the OPT port side) of the optical fiber transceiver.
- Align the retainer plate provided with the chassis with the two screw fixing holes on the device's side panel.
- Tighten the screws to lock the retainer plate onto the device's side panel.

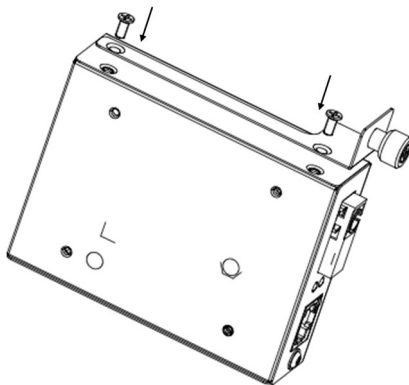


Figure 2-1 Install the Retainer Plate

Step 2 Insert the fiber optical transceiver into the chassis.

- Align the power jack on the device's rear panel with the DC power socket in an idle slot of the chassis.
- Slide the fiber optical transceiver into the chassis, as shown in Figure 2-2.

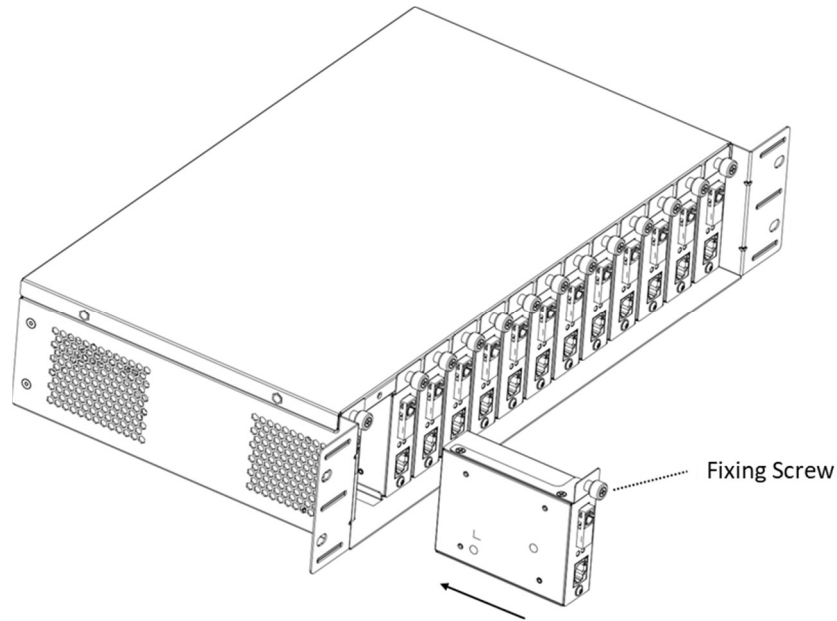


Figure 2-2 Install the Fiber Optical Transceiver into the Chassis

- c. Tighten the fixing screw on the retainer plate to securely install the device into the chassis.

Step 3 Optional: Install baffle plates for the idle slots where no fiber optical transceivers are inserted.

- a. Align the holes on the baffle plate with the holes above an idle slot of the chassis.
- b. Use the provided M3 mounting screws to fix the baffle plate onto the chassis.

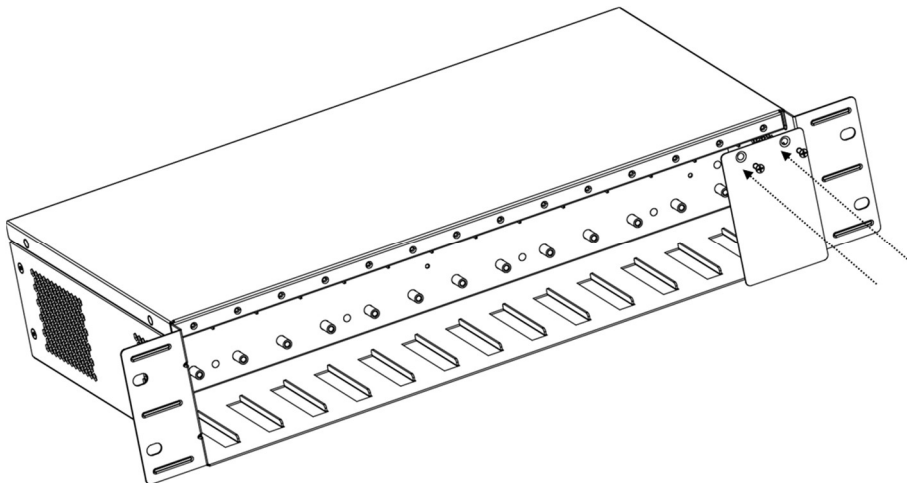


Figure 2-3 Install the Baffle Plate

Step 4 Install the chassis.



Note

The chassis supports both desktop placement and rack-mounted installation. Please select an appropriate installation method according to the actual needs.

- Desktop Placement

Place the chassis on a clean and stable desk with its top facing upward.

- Rack-Mounted Installation

Install the chassis in a 19-inch standard cabinet.



Caution

In order to ensure good heat dissipation, up to 2 chassis can be installed in a fanless 19-inch standard cabinet, and there should be a vertical interval of at least 2U between them. If the preceding installation conditions cannot be met, fiber optical transceivers inside the chassis may be damaged due to excessively high temperature.

- a. Check the grounding and stability of the rack.
- b. Insert two self-prepared square-hole cage nuts on each side of the rack.
- c. Place the chassis against the rack so that the holes on the L-shaped brackets are aligned with the holes where the cage nuts have been inserted.
- d. Fix the brackets to the rack with two self-prepared M5 or M6 screws on both sides respectively to stably install the chassis.

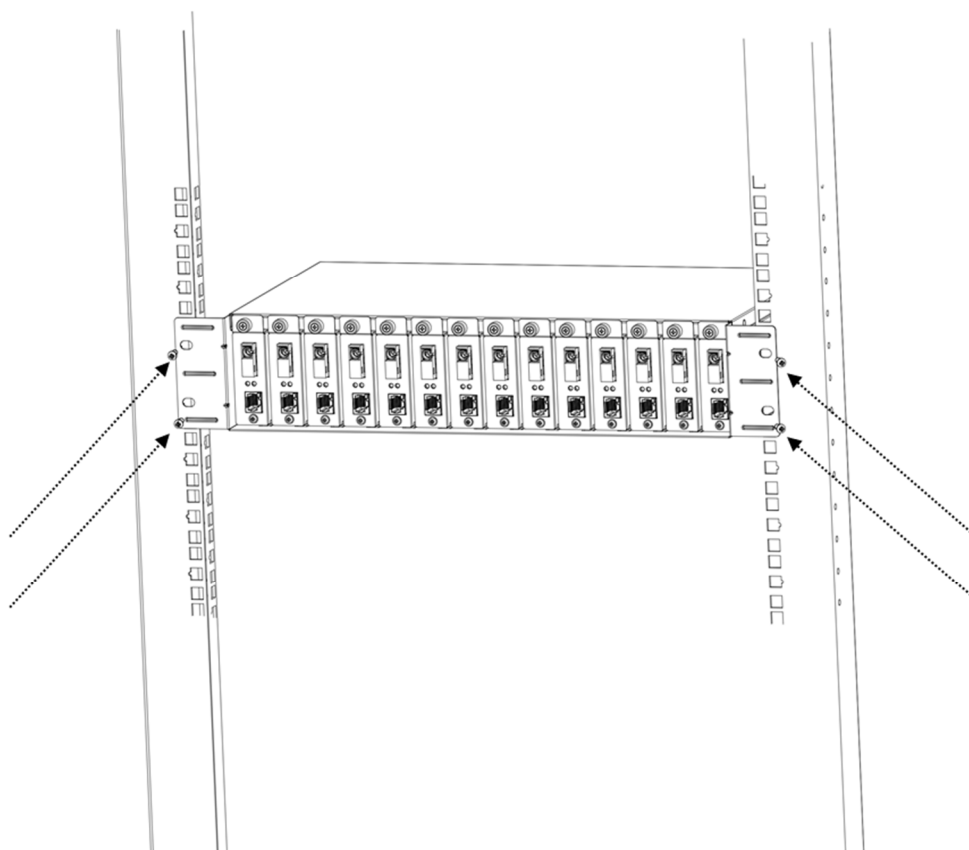


Figure 2-4 Install the Chassis onto the Rack

Chapter 3 Grounding

Grounding is used to quickly release overvoltage and overcurrent induced by lightning on the chassis, and to protect personal safety. Select an appropriate grounding method according to the installation conditions.

Note

The following figures are for illustration only.

3.1 With Grounding Bar

Step 1 Connect one end of the grounding cable to the binding post on the grounding bar.

Step 2 Connect the other end of the grounding cable to the grounding terminal of the chassis and tighten the screw.

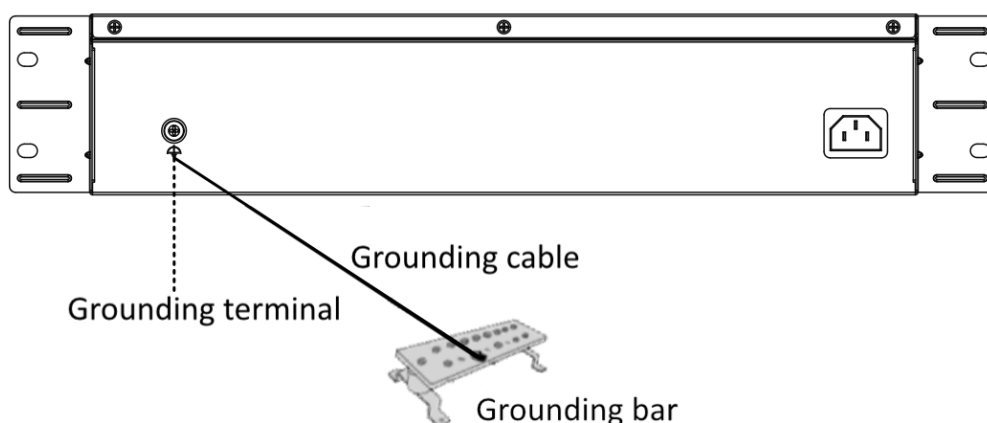


Figure 3-1 Grounding with Grounding Bar

3.2 Without Grounding Bar

Step 1 Bury an angle steel or steel pipe (≥ 0.5 m) into the earth.

Step 2 Weld one end of the grounding cable to the angle steel or steel pipe and embalm the welding point via electroplating or coating.

Step 3 Connect the other end of the grounding cable to the grounding terminal.

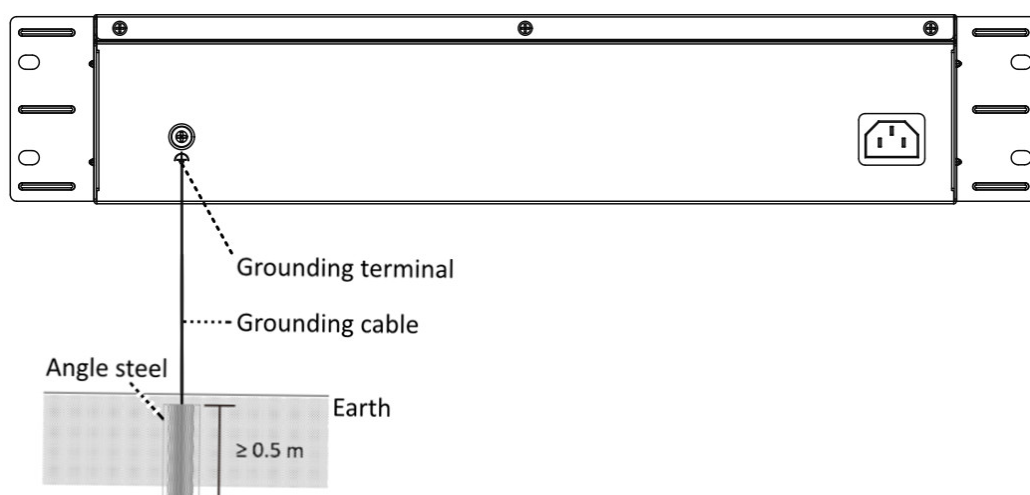


Figure 3-2 Grounding with Angle Steel

Chapter 4 Powering On

Please use the attached AC power cord to power on the chassis.

Before powering on the chassis, make sure that:

- The operating power supply is compliant with rated input standard.
- Port cables and grounding cables are correctly connected.



See Far, Go Further