

PTX Optical Inline Amplifier Quick Start Guide

Published
2023-11-03

RELEASE

Table of Contents

Step 1: Begin

Mount the Optical ILA | 1

Connect Power to the Optical ILA | 2

Step 2: Up and Running

Set Parameter Values | 4

Perform the Initial Configuration | 4

Step 3: Keep Going

Safety Warnings Summary | 5

Power Cable Warning (Japanese) | 6

Contacting Juniper Networks | 6

Step 1: Begin

IN THIS SECTION

- [Mount the Optical ILA | 1](#)
- [Connect Power to the Optical ILA | 2](#)

To install and configure a Juniper Networks Optical Inline Amplifier, you need:

- Electrostatic discharge (ESD) grounding strap (not provided)
- Four screws to secure the chassis and mounting brackets to the rack (not provided)
- Screwdriver appropriate for the rack-mounting screws (not provided)
- Two power cords with plugs appropriate for your geographical location (provided with the AC model)
- Two DC power connectors (provided with the DC model)
- Power cable or cables appropriate for your geographical location available to connect DC power to the optical ILA (not provided)
- RJ-45 cable and RJ-45 to DB-9 serial port adapter (provided)
- Management host, such as a PC laptop, with a serial port (not provided)
- (Optional) Grounding cable with lug, screws, and washers (not provided)
- (Optional) 23-in. mounting brackets (provided)

Mount the Optical ILA

NOTE: Place the rack in its permanent location, allowing adequate clearance for airflow and maintenance, and secure it to the building structure. If you are mounting multiple units in the rack, mount the heaviest unit at the bottom and mount the other units from bottom to top in

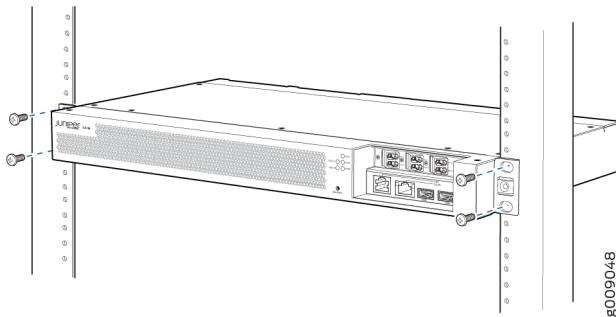
order of decreasing weight. The DC-powered optical ILA weighs 11.8 lb (5.35 kg) and the AC-powered optical ILA weighs 11.7 lb (5.30 kg).

The optical inline amplifier (optical ILA) can be mounted on a two-post rack. To mount the optical ILA on two posts of a rack by using the provided mounting kit:

1. Attach the ESD grounding strap to your bare wrist and to a site ESD point.
2. Position the optical ILA in such a manner that the FRUs are next to the hot aisle.

NOTE: The 19-in. brackets are attached to the optical ILA when they are shipped. If you want to attach the 23-in. brackets, unscrew the 19-in. brackets from the chassis, and attach the 23-in. brackets by using the same screws.

3. Use four mounting screws (and cage nuts and washers if your rack requires them) to attach the optical ILA to the rack as shown in the illustration.



4. Tighten the screws.
5. (Optional) Attach a grounding cable to earth ground and then attach it to the chassis grounding point.

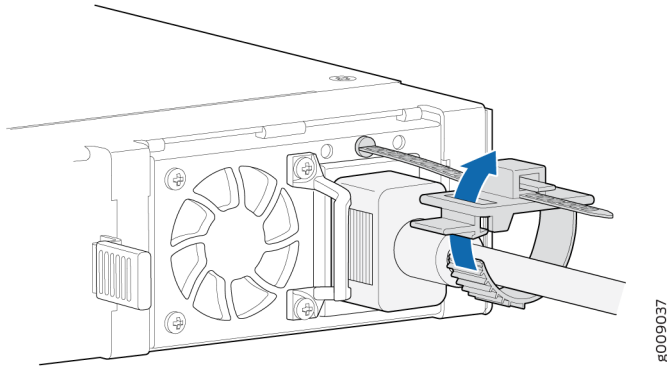
Connect Power to the Optical ILA

The optical ILA is supplied with two factory-installed power supplies. For instructions on connecting DC power, see the installation instructions in the Optical Inline Amplifier Hardware Guide.

To connect power to an optical ILA with AC power supplies:

1. To prevent damage to the equipment caused by static discharge, attach an ESD grounding strap to your bare wrist, and connect the strap to an approved site ESD grounding point.
2. Insert the coupler end of the power cord into the AC power cord inlet on the AC power supply faceplate.

3. If the AC power source outlet has a power switch, set it to the off (O) position.
4. Insert the coupler end of the power cord into the AC power cord inlet on the AC power supply faceplate.
5. Open the power cord retainer by pressing the protruding tab and prying it open. Wrap the power cord retainer around the AC power cord and push the cable clamp through the hole to tighten.



6. Repeat the steps for each power supply you are connecting.
7. Insert the power cord plug into an AC power source outlet.

NOTE: The optical ILA powers on as soon as power is provided to the power supply

8. If the AC power source outlet has a power switch, set it to the on (I) position.
9. Verify that the status LED for each power supply is lit green and is on steadily.

Step 2: Up and Running

IN THIS SECTION

- [Set Parameter Values | 4](#)
- [Perform the Initial Configuration | 4](#)

Set Parameter Values

You must perform the initial configuration of the optical ILA through the console port. Before you begin, set the following parameter values from the console server or PC:

- Baud Rate—115200
- Flow Control—None
- Data—8
- Parity—None
- Stop Bits—1
- DCD State—Disregard

Perform the Initial Configuration

To connect and configure the optical ILA from the console:

1. Connect the console port to a laptop or PC by using the provided RJ-45 cable and RJ-45 to DB-9 serial port adapter. The console (**CON**) port is located on the management panel of the optical ILA.
2. Log in as the root user. Enter the default password **root**.

```
login: root
```

3. Start the command-line interface (CLI).

```
root@% localhost:~#usr/bin/command
Welcome to ILA World
BPS>
```

4. To enter the administrative mode, log in as the root user with password **Admin@123**.

```
BPS>login
Username: root
Password: *****
Completed!
BPS>
```

5. You can use the CLI commands documented in the *Optical Inline Amplifier Hardware Guide* to configure, monitor, and troubleshoot the optical ILA.

Step 3: Keep Going

IN THIS SECTION

- [Safety Warnings Summary | 5](#)
- [Power Cable Warning \(Japanese\) | 6](#)
- [Contacting Juniper Networks | 6](#)

See the complete Optical Inline Amplifier documentation at https://www.juniper.net/documentation/en_US/release-independent/junos/information-products/pathway-pages/ptx-series/ptx-ila/index.html.

Safety Warnings Summary

This is a summary of safety warnings. For a complete list of warnings, including translations, see the Optical Inline Amplifier documentation at https://www.juniper.net/documentation/en_US/release-independent/junos/information-products/pathway-pages/ptx-series/ptx-ila/index.html.



WARNING: Failure to observe these safety warnings can result in personal injury or death.

- Only trained and qualified personnel are permitted to install or replace the optical ILA components.
- Perform only the procedures described in this quick start and the optical ILA documentation. Other services must be performed by authorized service personnel.
- Before installing the optical ILA, read the planning instructions in the optical ILA documentation to make sure that the site meets power, environmental, and clearance requirements for the optical ILA.
- Before connecting the optical ILA to a power source, read the installation instructions in the optical ILA documentation.

- If the rack or cabinet has stabilizing devices, install them in the rack before mounting or servicing the optical ILA in the rack or cabinet.
- Before installing or after removing an electrical component, always place it component-side up on a flat antistatic mat or in an antistatic bag.
- Do not work on the optical ILA or connect or disconnect cables during electrical storms.
- Before working on equipment that is connected to power lines, remove jewelry, including rings, necklaces, and watches. Metal objects heat up when connected to power and ground and can cause serious burns or become welded to the terminals.

Power Cable Warning (Japanese)

The attached power cable is only for this product. Do not use this cable for another product.

注意

附属の電源コードセットはこの製品専用です。
他の電気機器には使用しないでください。

20410300

Contacting Juniper Networks

For technical support, see:

<http://www.juniper.net/support/requesting-support.html>

Juniper Networks, the Juniper Networks logo, Juniper, and Junos are registered trademarks of Juniper Networks, Inc. in the United States and other countries. All other trademarks, service marks, registered marks, or registered service marks are the property of their respective owners. Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice. Copyright © 2023 Juniper Networks, Inc. All rights reserved.