

Quick Install Guide



XSTREAM™ 40

XF-40 Aggregation

XF-40-DIR Filtering

XF-40-LB Load Balancing



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Additional Information

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xStream 40 Content

This guide provides the initial steps to set up and configure the xStream 40 Appliance.

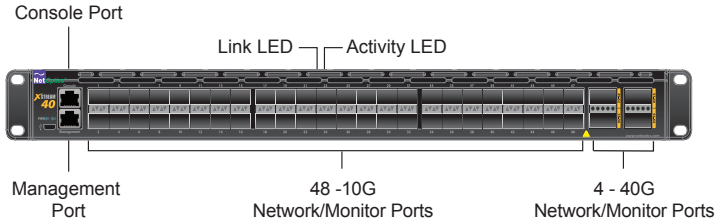
The xStream 40 Appliance package has been designed to protect your appliance during shipping. Carefully unpack the xStream 40 chassis, power cords, screws, and cables and verify you have the following components:

- (1) xStream 40 device with Aggregation, Filtering or Load Balancing software installed
- (2) Power cords
- (1) Cable, 3 Meter, RJ45, CAT 5e 4-Pair
- (1) DB9 to RJ45 cable, 6 ft.
- Screws and washers for rack mounting the device
- Documentation: Quick Install Guide (this document), CD containing the xStream 40 User Guide and xStream 40 CLI Command Reference
- Registration instructions and Extended Warranty, if purchased

The SFP, SFP+ and QSFP modules are ordered and shipped separately.

Contact Net Optics Technical Assurance Center if any component is missing or damaged. Contact details are at the back of this guide.

xStream 40 Appliance Overview



- Console Port (RJ45)
- Management Port (RJ45)
- 48 x 10G Network/Monitor Ports (uses SFP, SFP+ transceivers)
- 4 x 40G Network/Monitor Ports (uses QSFP transceivers)
- 2 Hot swappable power units, AC or DC
- 5 Hot swappable fans

Step 1

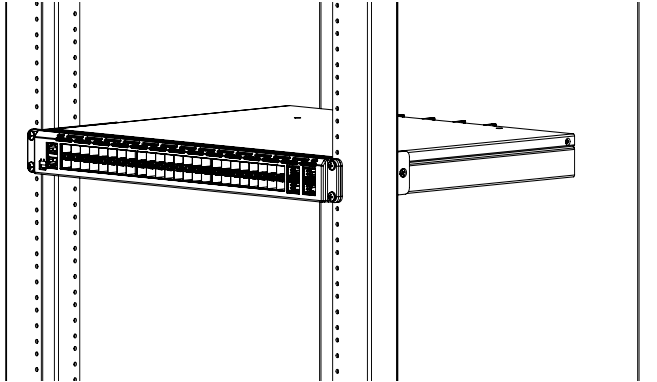
Rack Mount xStream 40

The xStream 40 device is designed to mount in a 19-inch rack, occupying 1U of height. Do the following to install the xStream 40 into a 19-inch equipment rack:

1. Remove the screws from the shipping bag.
2. Slide the chassis into the rack and fasten it in place at the front panel ears using the supplied screws and washers.

Grounding

Ground the chassis to the rack by connecting a 14 AWG minimum ground wire with a #8 ring lug to the ground connection on the rear of the chassis. Terminate the other end of the ground wire to the rack ground bus bar.



Step 2

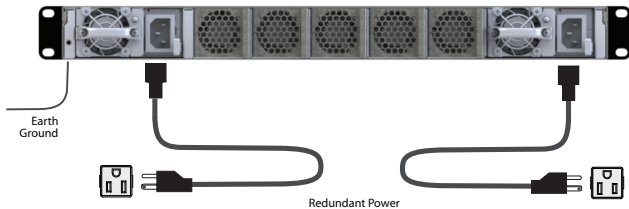
Connect AC Power

Caution: *Always connect the earth electrical grounds first, and keep the earth grounds connected whenever you are working on the device.*

If possible, turn off the power to the power sources while you are making the power connections.

If you are installing the device with AC connectors:

1. Plug one of the AC power cords to one of the AC power connectors on the rear panel.
2. Plug the other end of the cord into an AC power circuit.
3. For redundant power, connect the other AC power cord to the other AC power connector on the rear panel and plug the other end of the cord into a different AC power source.



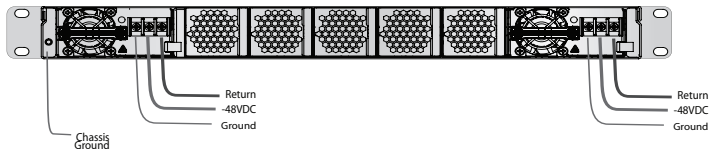
Step 2 (cont.)

Connect DC Power

For DC powered models, you must supply your own power cables and one Phillips screwdriver. DC power cables must have a wire gauge of at least 16 AWG and a 72 VDC, 6A rating. Remove the protective covers from the DC power terminal blocks. Use the Phillips screwdriver to tighten the connections.

1. Connect a ground wire from the chassis ground to the rack.
2. Connect one end of another ground wire at the ground connector at Power 1 on the device chassis. Then connect the other end of the ground wire to the ground connection at the DC power source.
3. Connect the negative (- 48VDC) side of a DC power cable to the Power 1 terminal on the chassis, labeled with the minus symbol (-), and connect the positive (0V) side of the DC power cable to the Power 1 terminal labeled with the plus symbol (+). The negative (minus symbol) terminal is in the center, and the plus terminal is to the right.
4. Connect the other ends of the negative side and the positive sides of the DC cable to the negative and positive connectors of the power source.
5. If you want to connect to redundant power, repeat steps 3 and 4 for Power 2 and then connect the other ends to a separate power source.

Note: *Be sure to connect the positive sides of the cables to the positive sides of the power sources, and the negative sides of the power cables to the negative sides of the power sources. The two power LEDs on the front panel light up to indicate that both power sources are on.*



Step 3

Log into the xStream 40

The xStream 40 is shipped with a default Management port IP address. If you prepare your network to accept the default address, you can connect the device to your network and log in using the default address.

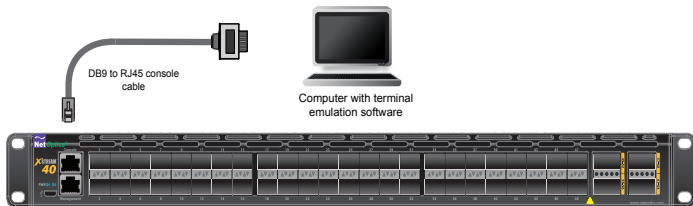
IP: 10.60.4.180 Gateway: 10.0.0.1 Netmask: 255.0.0.0

If you want to assign the device a new IP address, you can connect a terminal to the xStream 40 console port, log in, and assign a different IP address.

1. Connect a PC running terminal emulation software to the xStream 40 Console port with the supplied DB9 to RJ45 console cable.
2. Launch the terminal emulation software, such as HyperTerminal or minicom, and set the communication parameters to 115200 baud, 8 data bits, no parity, 1 stop bit, and no flow control.
3. At the login prompt, type **admin**, and at the password prompt, type **netoptics**.
4. At the CLI prompt, type **config** to go into configuration mode.
5. Change the password for the admin account by entering the following CLI commands:

```
passwd set password <new-pw>  
reenterPassword <new-pw>  
commit
```

where <new_pw> is the password you want to use.



Step 4

Configure the xStream 40 IP

To assign a new IP address using the CLI:

1. After the command prompt, type in the following command to set the new IP address:

```
device sysIp ipSet address <ipaddress> netMask <netmask>  
gateway <gateway>
```

where *<ip address>* is the IP address you want to set for the Management port, *<netmask>* is the netmask, and *<gateway>* is the IP address of the gateway.

2. Confirm with a **'yes'**. The xStream 40 device takes on the new address immediately.

To view the list of CLI commands, type '?' at the prompt or type **help**. You can use the tab key to auto-complete partially typed commands. Enter a command, space and '?' to display the arguments for that command. For command details, see the CLI Reference manual.

After the initial set up of the IP address through the local CLI, connect the Management port with a CAT 5e cable to a switch or hub. You can access the xStream 40 CLI remotely by SSH or access the web interface through a web browser.

Step 5

Check the xStream 40 Installation

After you have connected the xStream 40 device, verify that it is functioning correctly by checking the link LEDs for each of the connected ports. The link LEDs should be illuminated to indicate that the links are connected and traffic is present.

For more information, see the xStream 40 User Guide and the xStream 40 CLI Command Reference on the CD that is included with the product.

www.netoptics.com

If you have questions while your product is under warranty or you are enrolled in a support plan, please contact the Net Optics Technical Assurance Center (TAC) via email at support@netoptics.com or by calling +1.408.737.7777, Monday through Friday, between the following hours in your region:

- **7:00 - 17:30 Americas (Pacific Time)**
- **9:00 - 17:00 EMEA (Frankfurt Time)**
- **9:00 - 17:00 APAC (Hong Kong Time)**

You can also find more information on our website at www.netoptics.com.