

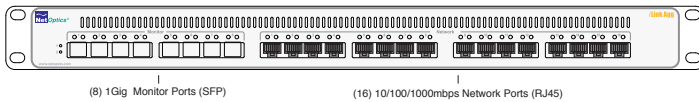
Unpacking and Inspection

Carefully unpack iLink Agg™ and retain materials for later use.

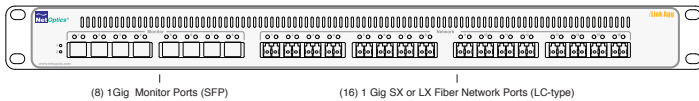
iLink Agg ships with the following:

- (1) the iLink Agg device
- (2) Power cords (AC model only)
- (2) Cable, 3 Meter, RJ45, CAT 5e 4-Pair
- (1) DB9-to-RJ45 RS232 adapter for use with the CLI
- Screws and washers for rack mounting
- (1) iLink Agg Quick Install Guide (this sheet)
- (1) CD containing the iLink Agg User Guide and the iLink Agg CLI Command Reference
- Service Plan Reference Guide
- Registration instruction card
- Extended Warranty if purchased

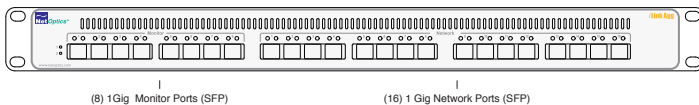
Carefully check the packing slip against parts received. If any part is missing or damaged, contact Net Optics Customer Service. (Note: SFP modules are ordered and shipped separately.)



Copper In-line Models



Fiber In-line Models



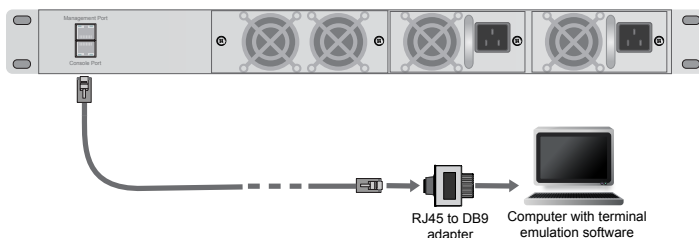
Span Models

Configuring iLink Agg

All configuration options, status, and statistics are accessible from the Command Line Interface (CLI). To use the CLI over a remote SSH connection, first set the system's IP address using the local RS232 interface.

To access the Command Line Interface:

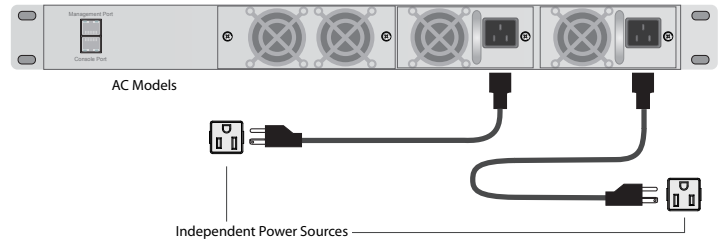
1. Connect a PC with terminal emulation software to iLink Agg using the supplied RS232 RJ45 cable and the RJ45 to DB9 adapter.



2. Launch terminal emulation software such as HyperTerminal or minicom with the following settings:
115200 baud, 8 data bits, no parity, 1 stop bit, no flow control

3. Connect power to iLink Agg.

Make sure that you connect the power supplies to two separate, independent power sources.



4. At the login prompt, type **admin**; at the password prompt, type **netoptics**.
5. Change the password for the **admin** account. Type:
user mod name=admin priv=1 pw=<new-pw>
where **<new-pw>** is the new password
6. Set the iLink Agg IP address. Type:
sysip set ipaddr=<ipaddress> mask=<netmask>
gw=<gateway>
sysip commit
where **<ip address>** is the IP address for iLink Agg, **<netmask>** is the netmask, and **<gateway>** is the IP address of the gateway
7. For more information on the CLI, type **Help** to display command information, or see the User Guide. The tab key or space bar can be used to autocomplete partially typed commands. Entering ? following a command (and a space) displays the arguments for that command. The up- and down-arrow keys access the CLI command history buffer.

The CLI can now be accessed remotely by SSH over the iLink Agg Management port. Connect the Management port (the top RJ45 on the rear panel) with a CAT5 cable to a switch or hub to access the CLI over the network. The default SSH username is **linkagg**, the password is **netoptics** and the port is 22. Use the **passwd** command to change the SSH password.

Mounting iLink Agg

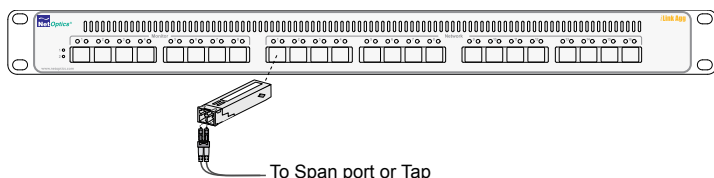
iLink Agg is designed to mount in a 19-inch rack, occupying 1U of height. Slide the chassis into the rack and fasten it in place at the front panel ears using the supplied screws and washers. Make sure that the rack is properly grounded.

Connecting to the Network

Note: SFP modules may be shipped separately. An appropriate cable is shipped with each SFP module.

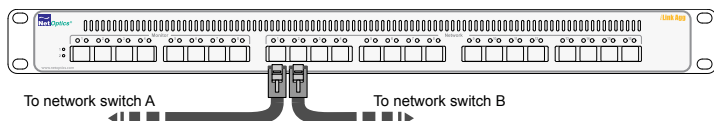
To connect iLink Agg to a Span port or external Tap on your network:

1. Remove the temporary plug from an SFP slot and insert the SFP module until it clicks into place. The SFP slot can be a network port on a Span model iLink Agg or a monitor port on any model.
2. Connect the cable supplied with the SFP module to the SFP port.
3. Connect the other end of the cable to a Span port on a network switch. Alternately, it can be connected to an external Tap or Port Aggregator Tap.



To connect iLink Agg in-line to your network:

1. Connect any odd-numbered network port on in-line model iLink Agg to an appropriate network cable.
2. Connect the other end of the cable to one side of the network link you are tapping.
3. Connect the next higher even-numbered network port to an appropriate network cable. In-line port pairs are located side-by-side.
4. Connect the other end of the cable to the other side of the network link you are tapping. The Tap connection is fully passive – if the iLink Agg loses power, traffic continues to flow in the link.



Connecting to Monitoring Devices

To connect iLink Agg to a monitoring device:

1. Remove the temporary plug from an SFP slot and insert the SFP module until it clicks into place. The SFP slot can be a network port on a Span model iLink Agg or a monitor port on any model.
2. Connect the cable supplied with the SFP module to the SFP port.
3. Connect the other end of the cable to the monitoring device.

Note: Span network ports can also be used as monitoring outputs, and monitor ports can also be used as Span network inputs.

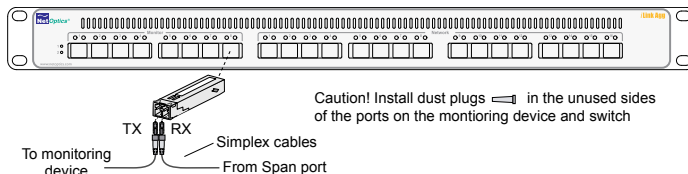
Checking the Installation

After you have connected iLink Agg, verify that it is functioning correctly.

- Check that the power LEDs are illuminated.
- Check the link LEDs for each of the connected ports to verify that the links are connected and traffic is present.

Doubling Your Ports

By using simplex (single fiber) cables, fiber ports can be used as Span network inputs and monitor outputs simultaneously, making up to 24 network and 24 monitor ports available for use. This can be done because the TX and RX sides of the ports are completely independent.

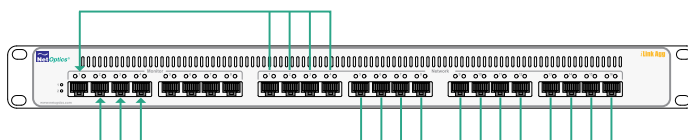


Mapping Ports

The iLink Agg is shipped in a configuration that aggregates the traffic from the 16 network ports and regenerates it to the 4 monitor ports. A variety of alternate configurations are preloaded; they can be viewed by typing **config list** and loaded by typing **config load file=<configuration name>** followed by **commit**. See the User Guide for diagrams of the preloaded configurations.

You can create your own configurations, mapping traffic from any set of ports to any set of ports. For example, to aggregate 4 network ports to 1 monitor port and the other 12 network ports to 3 monitor ports, use these commands:

```
map discard # clear the current configuration
map add in_ports=n1.1-n1.4 outports=m.1
map add in_ports=n1.5-n1.16 outports=m.2,m.3,m.4
commit
config save file=myConfig # save the configuration for future use
```



“myConfig” Port Mapping

Note: Each network input can be used in only one in_ports list. **commit** must be executed to activate the added maps.

For more information, see the iLink Agg User Guide (PUBLA2400U.pdf) included on the iLink Agg CD.