



**Pass-
through
and
Mezzanine
NIC**

8.4.x

Installation Guide

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Installing the pass-through

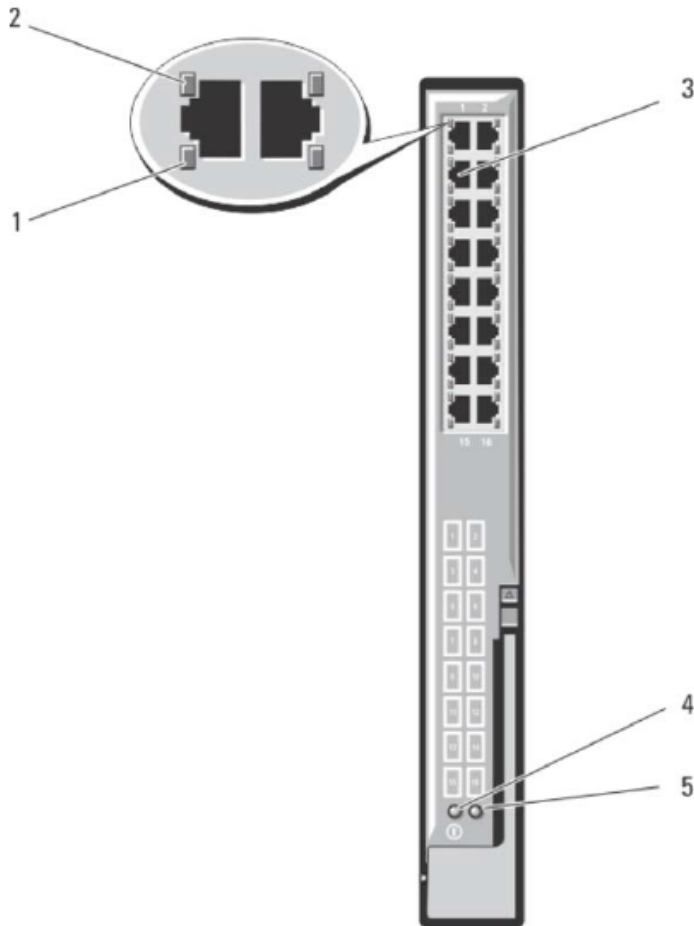
10/100/1000 Mb Ethernet Pass-Through I/O Module

The Ethernet pass-through module supports 10/100/1000 Mb connections and provides a direct connection between the optional internal Ethernet mezzanine card in the blade and an external Ethernet device. The Ethernet pass-through modules are hot-swappable and may be installed in any of the three Fabrics.



Note

To ensure proper functionality, use only the SFP transceivers provided with this module.



- 1 - activity indicators (16)
- 2 - link indicators (16)
- 3 - RJ-45 Ethernet connectors (16)
- 4 - power indicator
- 5 - status/identification indicator



Note

Connectors on the Ethernet pass-through module correspond directly to the blade number. For example, blade 5 is connected to port 5 on the Ethernet pass-through module. Integrated network adapter 1 maps to I/O slot A1. Integrated network adapter 2 maps to I/O slot A2.

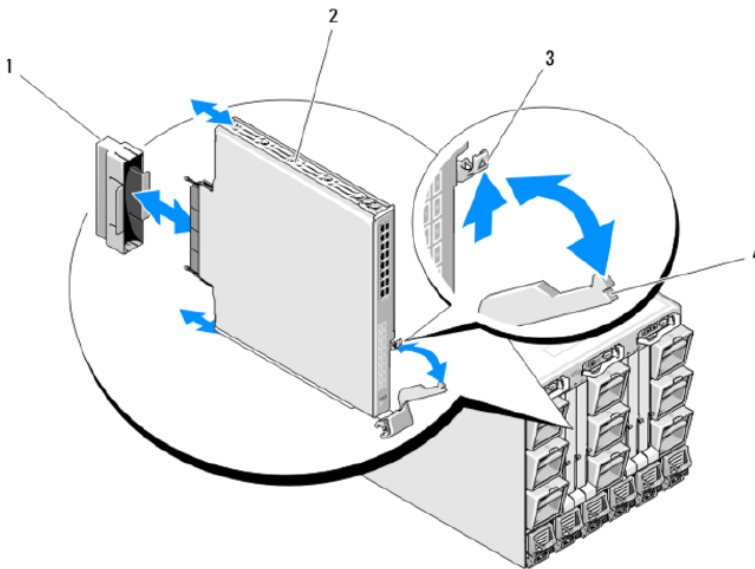
Removing An I/O Module



Warning

Many repairs may only be done by a certified service technician. You should only perform troubleshooting and simple repairs as authorized in your product documentation, or as directed by the online or telephone service and support team. Damage due to servicing that is not authorized by Dell is not covered by your warranty. Read and follow the safety instructions that came with the product.

- 1) If you have not already installed the cable enumerators to make removal and replacement of the I/O modules easier and faster, install them now. For more information, see the Rack Installation Guide at support.dell.com/manuals.
- 2) Disconnect the cables attached to the I/O module.
- 3) Lift the latch on the end of the module's handle and rotate the handle away from the module.
- 4) Slide the I/O module out of the enclosure.
- 5) Install the I/O connector cover.



- 1 - I/O connector cover
- 2 - I/O module
- 3 - release latch
- 4 - handle

Installing An I/O Module



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Note

The I/O module must be installed in the appropriate I/O bay.

Steps

- 1) Unpack the I/O module and prepare it for installation. For instructions, see the documentation that accompanied the I/O module.
- 2) Remove the I/O connector cover from the back of the module.
- 3) Lift the handle release latch and open the I/O module handle.
- 4) Slide the module into the enclosure.
- 5) Close the handle until it snaps securely into place and the module is fully seated.
- 6) Connect all cables that must be attached to the I/O module. See the documentation provided with the I/O module for information about its cable connections. For more information on using the cable enumerators to organize and manage the cables, see the Rack Installation Guide at support.dell.com/manuals.
- 7) A matching fabric mezzanine card must be installed in one or more blades to support the new I/O module. If necessary, install the mezzanine card(s).

Installing the mezzanine card

Prerequisites



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Note

You must remove the mezzanine card to replace a faulty mezzanine card or service other components inside the system.

Steps

- 1) Follow the safety guidelines listed in *Safety instructions* section.
- 2) Remove the mezzanine card.

Related concepts

[Safety instructions](#) on page 7

Steps

Steps

- 1) Open the retention latch by pressing the ridged area on the retention latch with your thumb and lifting the end of the latch.
- 2) If present, remove the connector cover from the mezzanine card bay.

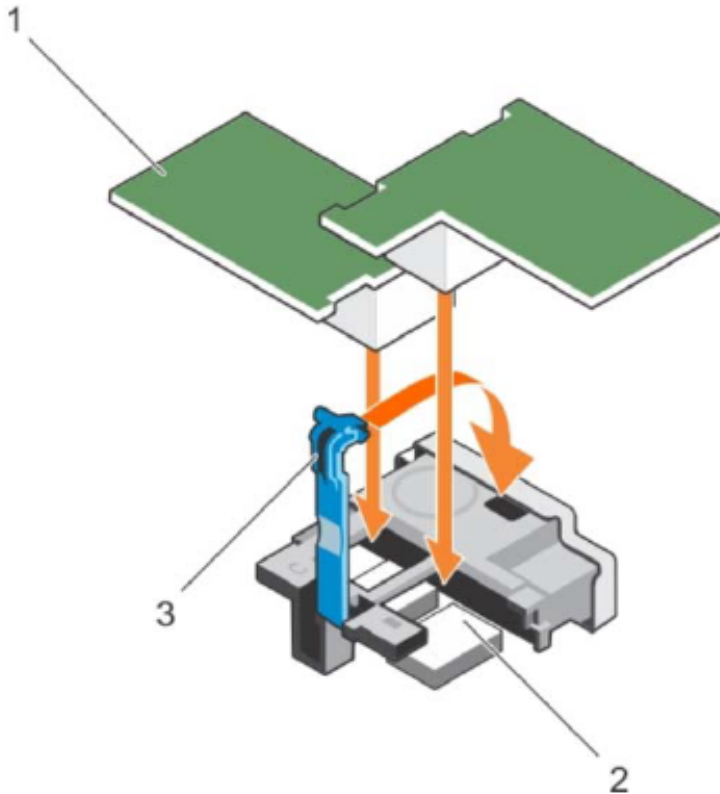


Warning

To prevent damage to the mezzanine card, you must hold the card only by its edges.

- 3) Rotate the card to align the connector on the bottom of the mezzanine card with the corresponding socket on the system board.
- 4) Lower the card into place until it is fully seated and the plastic clip on the outer edge of the card engages over the side of the blade chassis.

- 5) Close the retention latch to secure the mezzanine card.



- 1 - mezzanine card (2)
2 - connector (2)
3 - ridge area on the retention latch

Safety instructions



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Note

Dell recommends that you always use an antistatic mat and antistatic wrist strap while working on components inside the system.



Note

To ensure proper operation and cooling, all bays in the system must be populated always with either a system component or with a blank.

