

Fibre Channel Cabling Instructions

Installing an IBM Gigabit Interface Converter (GBIC) and IBM® Netfinity® Fibre Channel cable

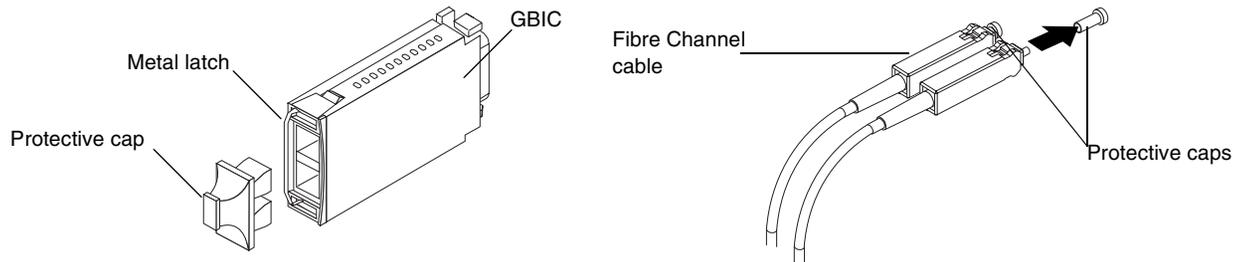
The GBIC housing and Fibre Channel cable have integrated guide keys so that you cannot insert these devices incorrectly. You must insert GBICs into ports with minimal pressure so that you do not damage either the GBIC or the port. You can insert a GBIC into an active port without affecting the operational loop performance. You must connect the Fibre Channel cable to the GBIC *after* you insert the GBIC into the port.

Attention: To avoid damage to your fiber-optic cables:

- Do not route the cable along a folding cable-management arm
- For devices on slide rails, leave slack in the cable so that it does not bend to a radius smaller than 76 mm (3 in.) when extended or become pinched when retracted
- Route the cable away from places where it can snag on other devices in the rack
- Do not over-tighten cable straps or bend the cables to a radius smaller than 76 mm (3 in.)
- Do not put excess weight on the cable at the connection point; also, be sure that it is well supported

To install a GBIC and Fibre Channel cable:

1. Remove the protective caps from the GBIC and the Fibre Channel cable. Do not touch the exposed fiber-optic cable.



2. Move the metal latch on the GBIC to the unlocked (outward) position.
3. Insert the GBIC into a GBIC port on an ESM board or mini-hub.
4. Move the GBIC latch back to the locked position.
5. Connect the Fibre Channel cable to the GBIC.

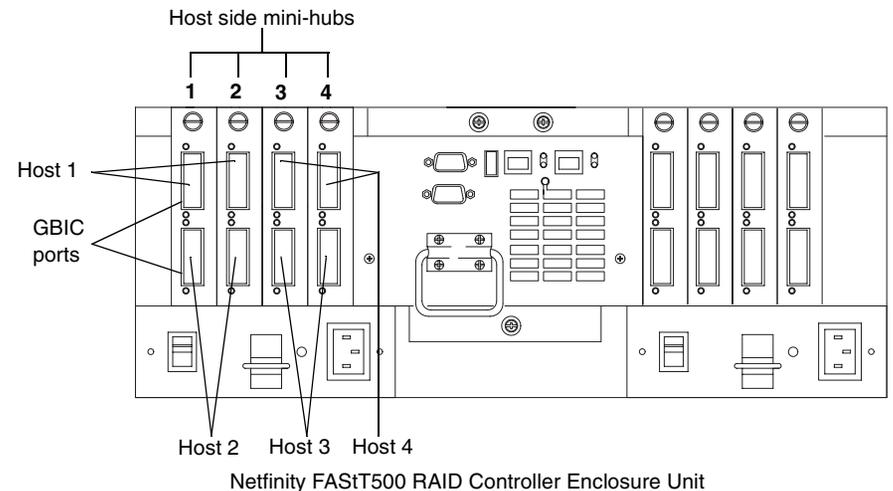
Host side Fibre Channel cabling

Refer to the illustration on the right and use the following steps to connect the host adapters:

1. Connect a host adapter from Host 1 to the top port on host side mini-hub 1. For redundancy, connect a second host adapter from Host 1 to the top port on host side mini-hub 2.

Note: To connect devices to each other, follow the procedure shown for installing GBICs and Fibre Channel cables on this page.

2. For a second redundant host, connect two host adapters from Host 2 to the bottom ports on host side mini-hubs 1 and 2.
3. For a third redundant host, connect two host adapters from Host 3 to the bottom ports on host side mini-hubs 3 and 4.
4. For a fourth redundant host, connect two host adapters from Host 4 to the top ports on host side mini-hubs 3 and 4.



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3

Caution:

When laser products (such as CD-ROMs, DVD drives, fiber optic devices, or transmitters) are installed, note the following:

- Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.
- Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

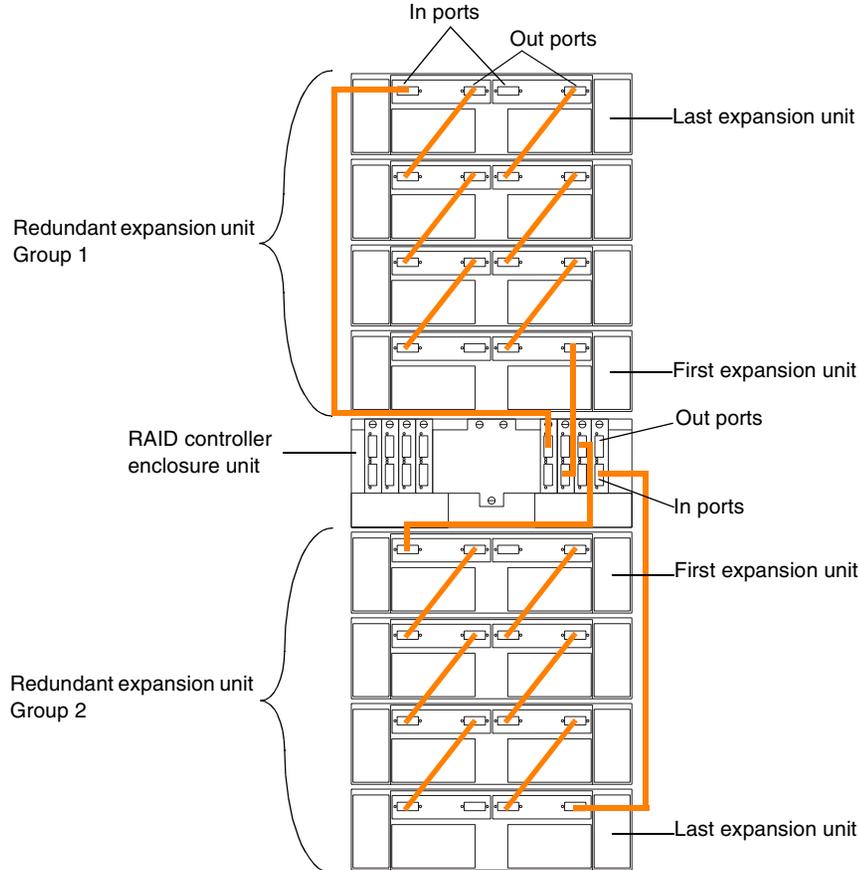
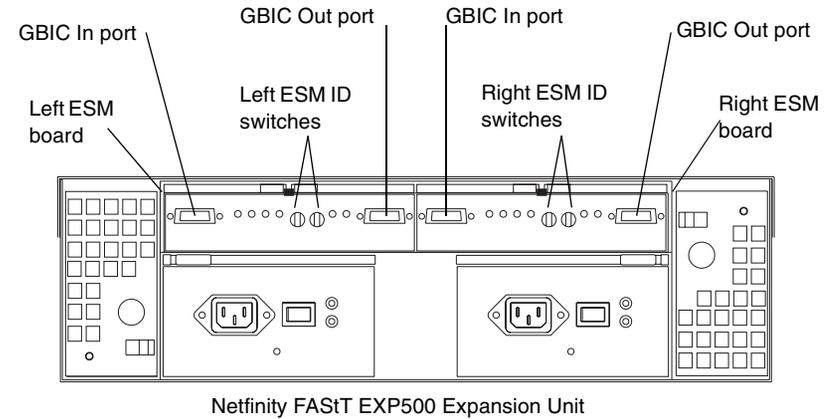
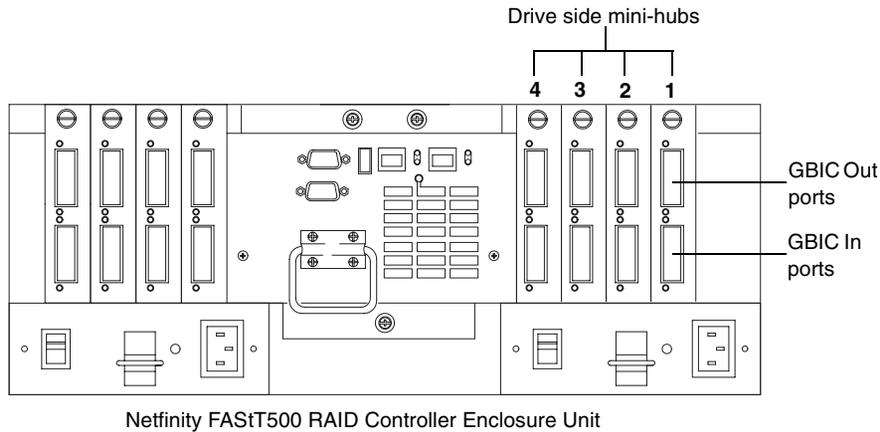
Danger:

Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following:
Laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.

Class 1 Laser Statement

Class 1 Laser Product
Laser Klasse 1
Laser Klass 1
Luokan 1 Laserlaite
Appareil À Laser de Classe 1

IEC 825-1:1993 CENELEC EN 60 825



Drive side Fibre Channel cabling

Refer to the illustrations on this page and use the following steps to connect the drives:

1. Start with the first expansion unit of redundant expansion unit Group 1 and connect the In port on the left ESM board to the Out port on the left ESM board of the second (next) expansion unit.
2. Start with the first expansion unit of redundant expansion unit Group 1 and connect the In port on the right ESM board to the Out port on the right ESM board of the second (next) expansion unit.
3. If you are cabling more expansion units to this redundant expansion unit group repeat step 1 and step 2, starting with the second expansion unit.
4. If you are cabling a second redundant expansion unit group, repeat step 1 to step 3 and reverse the cabling order; connect from the Out ports on the ESM boards to the In ports on successive expansion units according to the illustration on the left.
5. Connect the Out port of drive side mini-hub 4 (left-most drive side) to the In port on the left ESM board of the last expansion unit in redundant expansion unit Group 1.
6. Connect the In port of drive side mini-hub 3 to the Out port on the right ESM board of the first expansion unit in redundant expansion unit Group 1.
7. If you are cabling a second redundant expansion unit group, connect the Out port of drive side mini-hub 2 to the In port on the left ESM board of the first expansion unit in redundant expansion unit Group 2; then, connect the In port of drive side mini-hub 1 (rightmost drive side) to the Out port on the right ESM board of the last expansion unit in redundant expansion unit Group 2.
8. Ensure that each expansion unit has a unique ID (switch setting) and that the left and right ESM board switch settings on each expansion unit are identical.

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