

HBA Card Considerations

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Supported HBAs and Required Cables

This node supports the HBA options and cable requirements shown in [Table C-1](#).

Table C-1 *Cisco HX220c M4 RAID Options*

| Controller | Style | Node Version/ Maximum Drives Controlled | SCPM | RAID Levels | Required Cables |
|-------------------------------|-------|--|------|-------------|------------------|
| Cisco UCS 12G SAS Modular HBA | PCIe | 8 internal drives | No | Non-RAID | (UCS-220CBLMR8=) |

HBA Card Firmware Compatibility

Firmware on the HBA must be verified for compatibility with the current Cisco IMC and BIOS versions that are installed on the node. If not compatible, upgrade or downgrade the HBA firmware accordingly.

Use the procedures in the GUI or CLI [Cisco UCS Manager Firmware Management Guide](#) for your release.

HBA Cabling

This section includes the following topics:

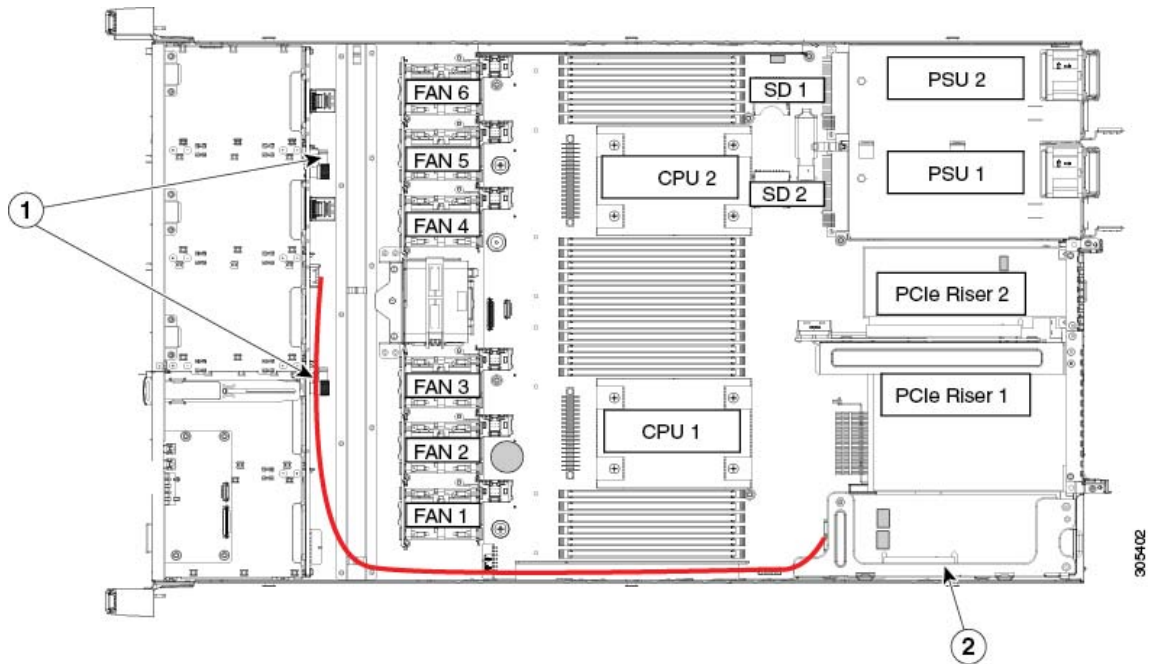
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Cable Routing

The RAID controller connectors in this node are shown in [Figure C-1](#).

The red line shows the recommended cable routing path from the Cisco modular HBA card to the drive backplane. Cable guides on the chassis wall help route the cables.

Figure C-1 RAID Controller Connectors



| | |
|--|--|
| <p>1 SAS/SATA connectors on the drive backplane</p> | <p>2 Cisco modular HBA riser (dedicated internal riser)</p> |
|--|--|

Cisco HX220c M4 Node Cabling

Cisco UCS 12G Modular HBA cabling

This non-RAID option can control up to eight SAS/SATA drives.

The required UCS-220CBLMR8= cable kit has one Y-cable with a mini-SAS HD double connector on one end and two mini-SAS HD single connectors on the other end.

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- Step 1** Connect the mini-SAS double connector to the modular HBA card.
 - Step 2** Connect single connector PORT A to the PORT A connector on the backplane.
 - Step 3** Connect single connector PORT B to the PORT B connector on the backplane.