

## RAID Controller Considerations

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This appendix contains the following sections:

- [Supported HBA and Required Cables, page C-1](#)
- [HBA Firmware Compatibility, page C-1](#)
- [HBA Cabling, page C-2](#)

## Supported HBA and Required Cables

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

**Table C-1** *Cisco Hx240c RAID Options*

Controller	Style	Supported Server Version/ Maximum Front-Facing Drives Controlled	SCPM	RAID Levels	Required Cables
Cisco UCS 12G SAS Modular HBA	PCIe	24 internal drives	No	Non-RAID	(UCS-240CBLMR24=)

## HBA Firmware Compatibility

Firmware on the HBA must be verified for compatibility with the current Cisco IMC and BIOS versions that are installed on the server. 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

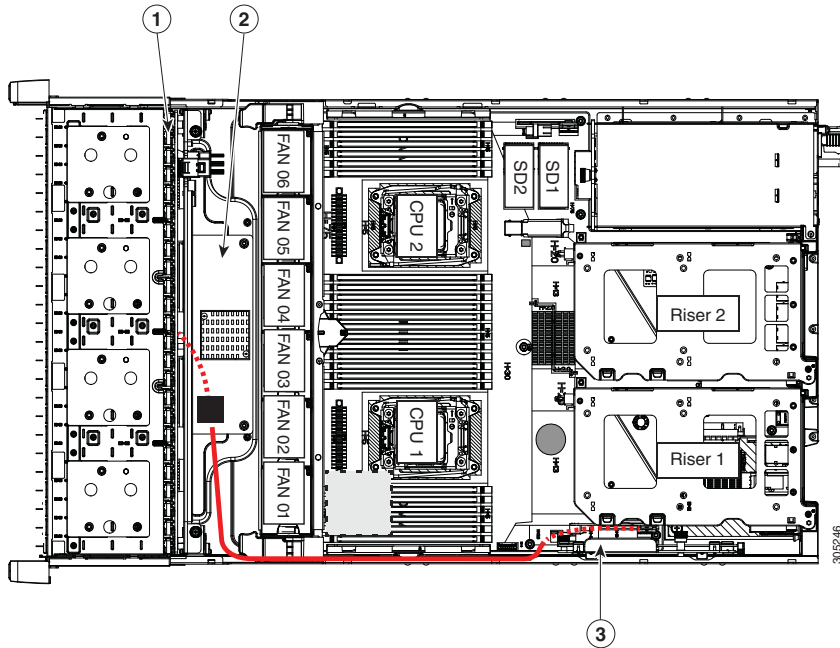
This section includes the following topics:

- [Cable Routing, page C-2](#)
- [Cisco HX240c Server HBA Cabling Instructions, page C-3](#)

## Cable Routing

The red line in [Figure C-1](#) shows the recommended cable routing path from an HBA in the dedicated slot.

**Figure C-1 HBA Cable Paths**



1	Drive backplane	3	Cisco HBA slot (dedicated PCIe slot on motherboard)
2	Expander (separate from the backplane)		

## Cisco HX240c Server HBA Cabling Instructions

This section contains cabling instructions for controlling front-facing drives using the supported cables:  
The node has a backplane and a separate SAS expander.

### Cisco UCS 12G Modular HBA

This option can control up to 24 drives.

The required UCS-240CBLMR24= cable kit has one cable with a mini-SAS HD connector on each end.

Make the following connections:

1. Connect one end of the cable to the HBA.
2. Connect the other end of the cable to the single mini-SAS HD connector on the expander.

