

R4300 Chassis Modules

The R4300 modules install in the R Series chassis and provide PC blade connectivity and management with the highest levels of flexibility, scalability, and reliability. When combined with ClearCube Sentral management software, the modules deliver unique capabilities such as hot sparing, blade switching, hardware remote control and out-of-band blade management.



Each R4300 chassis includes three configurable bays that provide connection, management and networking functionality described below.

Connect Bay – Connect modules provide user port connections and features such as hardware remote control, blade sparing and 8x8 switching. Customers can choose from two Connect Bay options:

- **8x8 Connect Module (XCM)** – The XCM is the most functionally complete Connect Module available. It contains direct C/Port connections, full 8x8 switching, administrator switching for hardware-based remote control and blade sparing capabilities. The XCM contains a flexible switch matrix that allows any blade in the chassis to connect to any C/Port attached to the chassis. The administrator switching feature allows an administrator to remotely view and/or control any Blade in a chassis using a single C/Port. This is extremely useful for facilitating training, collaborative troubleshooting and performance monitoring. The blade sparing functionality provides the ability to instantly switch a user from the user's primary blade to a hot spare blade. Through the use of a daisy-chain, the spare blade can be located in any XCM equipped chassis in a rack.
- **Administration Connect Module (ACM)** – The ACM provides only C/Port administration connections making it an ideal choice for I/Port and clustered computing deployments. It does not include any directly connected C/Port jacks so it cannot be used to connect Blades to C/Port end users. Therefore, the ACM does not include sparing connections and 8x8 switching which are enabled instead, through the blade network connections for I/Port users.

The table below outlines the functionality of the Connect Bay options by module:

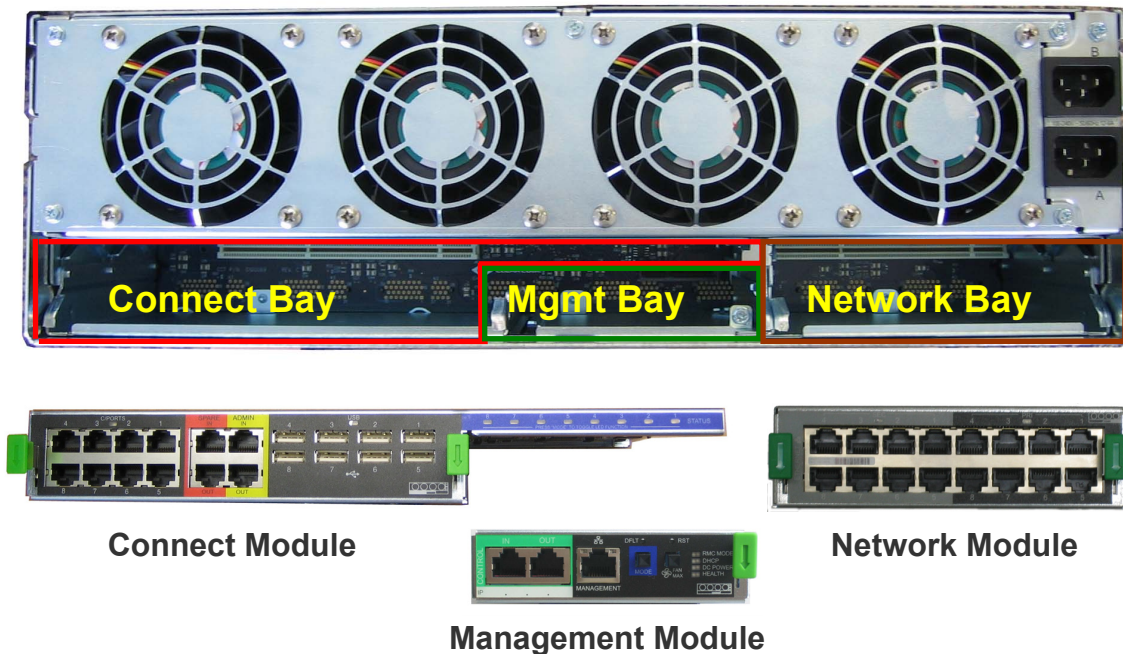
Connect Bay Module	8x8 Switching	C/Port Connections	Sparing for C/Ports	Hardware Remote Control
8x8 Connect Module (XCM)	✓	✓	✓	✓
Administration Connect Module (ACM)				✓

Connect Bay Functionality by Module

Management Bay – The Remote Management Module (RMM) controls switching in the Connect Modules and monitors blade and chassis status over the systems management bus connected to the control ports on the RMM. The RMM communicates with Switch Manager via an Ethernet connection to carry out Blade sparing, 8x8 switching and management functions. More than one RMM can be installed in a rack for

multi-level redundancy. If communications between ClearCube Sentral and the primary RMM fail, a backup RMM that is connected to the network will assume the primary role and take over all management responsibilities.

Network Bay – The Ethernet Pass-thru Module contains Ethernet jacks for connecting each Blade in the chassis to an external network switch.



R4300 Chassis and Modules

Specifications:

Connect Modules

Administration Connect Module:

- Administrator C/Port connections (supports daisy-chaining)
- Eight USB 2.0 ports*
- C/Port digital link, USB and network connectivity status lights for each Blade

8x8 Connect Module:

- Eight C/Port connections (RJ-45)
- Administrator C/Port connections (supports daisy-chaining)
- Blade sparing connections (supports daisy-chaining)
- Eight USB 2.0 ports*
- C/Port digital link, USB and network connectivity status lights for each Blade

Remote Management Module

- One 10/100 Ethernet remote management port (RJ-45)
- Two control (daisy-chain) ports (RJ-45)

Network Module

- Sixteen Ethernet ports (RJ-45) (provides ports for secondary NIC on R1300 Blade)
** Requires R1300 or R2200 Blade with 44-pin interposer installed*

Ordering Information

Use the following part numbers to order your R4300 Series chassis and modules:

GR4302CB – This bundle includes the R4300 Chassis, Remote Management Module, 16-port Network Module and Chassis Rapid Mounting Kit

Connect Modules (One required per chassis)

G091068 – Model R4387 8x8 Connect Module

G091067 – Model R4380 Administration Connect Module

*Customers should purchase at least one ClearCube C/Port to assist in blade setup and administration

Power Cord (Two cords required per chassis)

G060036 – North American Power Cord

G060020 – United Kingdom Power Cord

G060034 – European Power Cord

060043 – Japanese Power Cord

G060038 – Australian Power Cord

G090041 – Old United Kingdom Power Cord

Spare/Upgrade Items (Recommended)

GR4324UB – R4300 Chassis Upgrade Bundle (upgrades Blade Switching or Direct Connect Cage to R4300 Chassis)

GR4320 – Fan Tray

GR4316 – Power Supply

Extended Warranty (Optional)

G091127 – R4300 Chassis and Modules 3 Yr. Warranty