Quick Start Guide

CLEARCUBE

R2200
Dual-Processor Blade

The R2200 dual-Xeon blade offers dual integrated gigabit Ethernet controllers and NVIDIA-based graphics to deliver a high-performance, high-throughput solution to your enterprise computing needs.

INSTALLATION

The R2200 can be installed in any R4300 chassis, and in an R4200 chassis that is model C3130 or newer, depending on the interposer installed on the R2200. Before installing your R2200 equipped with a 44-pin interposer in a R4200 chassis, make sure they're compatible by opening the chassis front bezel and checking the label on the right-hand side of the inside of the chassis bezel for the notation **C3130 Cage**. If the model number is C3130 or later, a blade with a 44-pin interposer will fit. If not, a 30-pin interposer must be installed on the blade before the it will fully insert into the chassis.

Since the R2200 is a double-width blade, it needs to be installed in the correct chassis slot pairs. Install the R2200 only in slots 1&2, 3&4, 5&6, or 7&8.

To connect C/Ports to an R2200, use only the even-numbered C/Port connectors 2, 4, 6, or 8, relative to those slot pairs. The odd-numbered C/Port connections on the chassis are not connected to the R2200.

The first time you insert your R2200 into a powered-up chassis, the green **Power** LED will light, and the R2200 enters a stand-by power mode. You must depress the **Power** switch on the front panel of the R2200 to bring it into a fully powered-on mode. After you do this, the power modes function normally, and you can control the R2200's power remotely.

To remove an R2200, press the **Power** switch, and wait for the power light to go off. Then pull the blade from chassis, taking care to support the end of the blade as you remove it completely from the chassis.
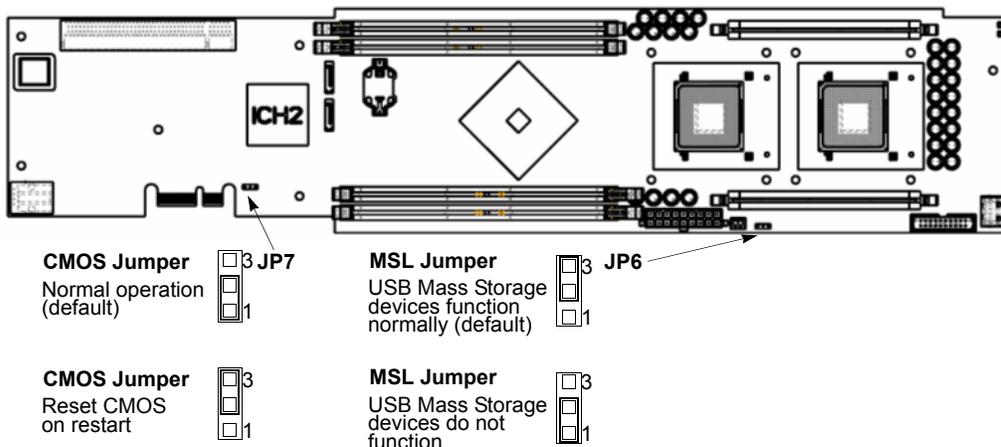
CAUTION: Some surfaces on the blade may be hot.

R2200 FEATURES

CMOS Jumper
Normal operation (default)
3 JP7
1

MSL Jumper
USB Mass Storage devices function normally (default)
3 JP6
1

CMOS Jumper
Reset CMOS on restart
3
1

MSL Jumper
USB Mass Storage devices do not function
3
1

Jumpers on the R2200
The R2200 provides jumpers that enable Mass Storage Lockout (MSL) and reset CMOS settings to defaults. The default jumper settings are:

- JP6, pins 2 and 3 jumpered, MSL is disabled.
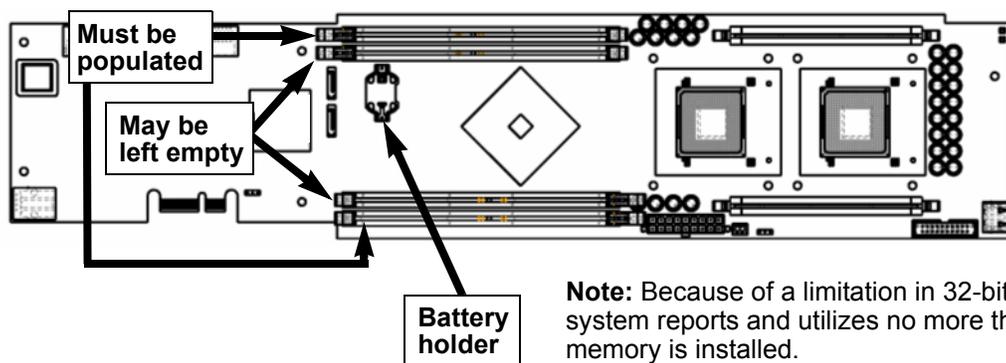- JP7, pins 1 and 2 jumpered, CMOS settings retained on restart.

Ethernet

The R2200 provides dual Ethernet ports, and these are accessible as follows:

- For a 16-port Ethernet Pass-through (EP6) module in an R4300 chassis, an R2200 in slots 1&2, 3&4, 5&6, or 7&8 uses primary Ethernet ports 1&2, 3&4, 5&6, or 7&8, respectively. Secondary ports on an EP6 are not connected to the R2200.
- In an R4200 chassis, the Ethernet port mapping is as follows: an R2200 in slots 1&2, 3&4, 5&6, or 7&8 uses Ethernet ports slots 1&2, 3&4, 5&6, or 7&8, respectively.

Must be populated

May be left empty

Battery holder

Upgrading the Memory on an R2200

The R2200 uses dual-channel DDR2-400 registered ECC memory. Memory must be installed in matched pairs in sockets, as shown. To ensure proper operation, use only ClearCube-approved memory.

Note: Because of a limitation in 32-bit Microsoft Windows, the operating system reports and utilizes no more than 3 GB of memory when 4 GB of memory is installed.

Using the USB 2.0 capability of the R2200

When used in an R4300 chassis, an R2200 with a 44-pin interposer installed provides a USB 2.0 port at the back of the R4300. The 30-pin interposer does not enable the USB 2.0 ports on the R4300 chassis.

As with connecting C/Ports to an R2200, use only the even-numbered USB ports. The odd-numbered USB ports on the chassis are not connected to the R2200.

Changing the Interposer on an R2200

ClearCube offers an optional kit that allows changing the standard 30-pin interposer on an R2200 to a 44-pin interposer. With the 44-pin interposer, the R2200 provides the convenience of a USB 2.0 port on the back of the R4300 chassis. For more information, contact your ClearCube Reseller or Account Executive.

The *R Series Data Center Products User's Guide* contains more details on the R2200 blade.

For other information, please contact ClearCube Technical Support.

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