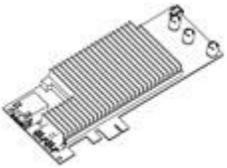
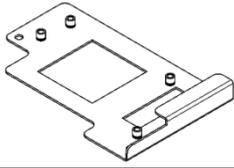
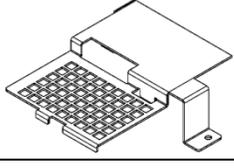
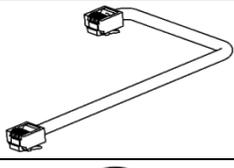
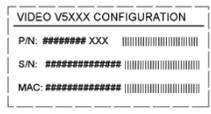




V5420 Host Card Upgrade Kit for R3082D Quick Start Guide

Upgrade kit contents

The table below shows the contents of the V5420 Host Card Upgrade Kit (components are not shown to scale).

Part	Function	Pieces
	V5420 Host Card	1
	Host card bracket	1
	Host card fan guard	1
	Pan head machine screw with lock washer	4
	Ethernet cable	1
	Hex standoff	2
	Video configuration label (with host card part number, serial number, and MAC address)	1
	This Quick Start Guide	1

Continued on next page



V5420 Host Card Upgrade Kit for R3082D Quick Start Guide, Continued

Introduction

This guide explains how to install a V5420 Host Card in a ClearCube® R3082D Blade PC that is configured for IGD, or onboard graphics.

Host card and firmware requirements

Ensure that host cards and zero clients

- use compatible versions of TERA firmware, and
- only use firmware from ClearCube Support.

See *PC-over-IP® Device Firmware Support and Compatibility Guide* and *PCoIP® System User's Guide* on the ClearCube Support site for information about firmware support and instructions about upgrading firmware.

Personal and product safety

WARNING: *Disconnect the computer's power supply from its AC power source before performing any installation steps or maintenance, including opening or moving the device. Failure to do so can cause personal injury, cause damage to the device, or both.*

CAUTION: *Electrostatic discharge (ESD) can damage upgrade kit components and the computer in which you are installing a kit. Be sure to wear an anti-static wrist strap to prevent ESD, or take safety measures such as touching the anti-static bag containing the host card before touching any components.*

Continued on next page

V5420 Host Card Upgrade Kit for R3082D

Quick Start Guide, Continued

**Structure: kit
assembly
overview**

The figure below shows how each item in the kit is assembled, and the location of the video configuration label (your blade and host card might look slightly different than the examples shown below).

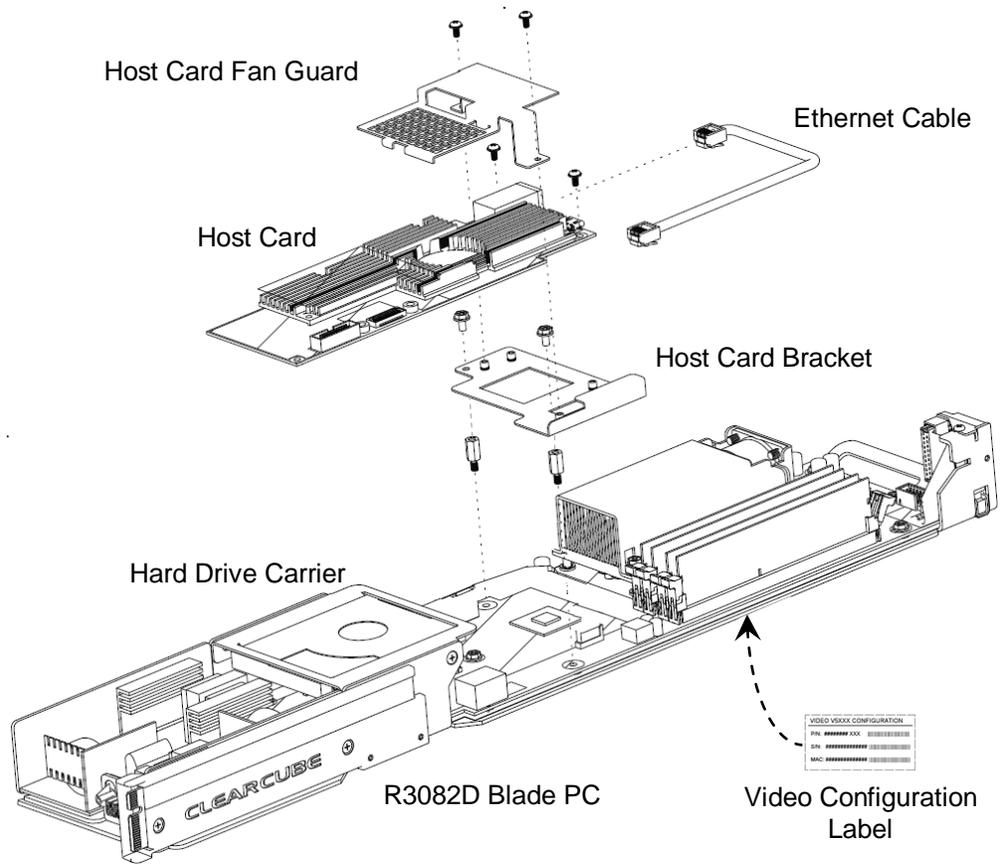


Figure 1. Assembly of Upgrade Kit components

Continued on next page



V5420 Host Card Upgrade Kit for R3082D Quick Start Guide, Continued

Structure: V5420 assembly

The figure below shows the assembly of the host card bracket, the host card, and the host card fan guard. Note that your host card might look slightly different than the host card shown in the example below.

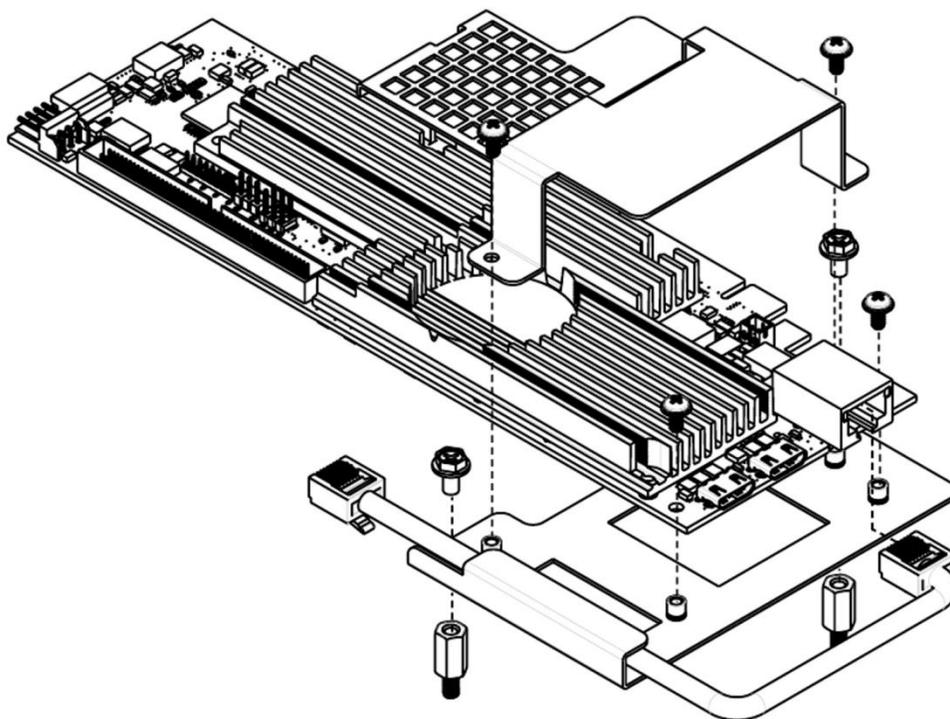


Figure 2. Assembly detail: fan guard, host card, Ethernet cable, and bracket

Tools

Before installing the upgrade kit, be sure to have

- a #2 Phillips screwdriver, and
 - 6-32 nut driver or wrench.
-

Continued on next page

V5420 Host Card Upgrade Kit for R3082D Quick Start Guide, Continued

Procedure:
installing the
V5420 Host
Card

The table below shows how to install the V5420 Host Card Upgrade Kit.

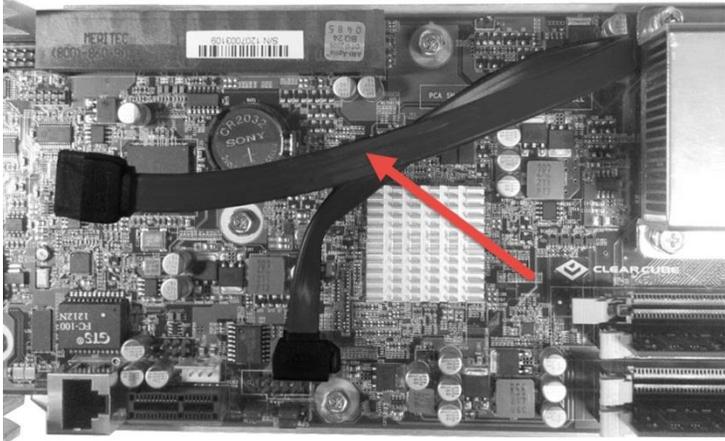
Step	Action
1	Remove the SATA power cable and data cable from the hard disk drive (HDD). NOTE: Leave the <i>data cable</i> connected to the motherboard (as shown in the picture below). Remove the <i>power cable</i> from the motherboard and set it aside.
2	Remove the three 6-32 flat head screws from the hard drive carrier (see Figure 1) and carefully lift it up and out of the R30802D blade. Set the hard drive carrier and the screws aside.
3	Route the SATA data cable as shown below. Be sure the cable is not interfering with any motherboard components, including the capacitors on the upper-right of the chipset heat sink. <div style="text-align: center;">  </div>

Figure 3. Routing the SATA data cable

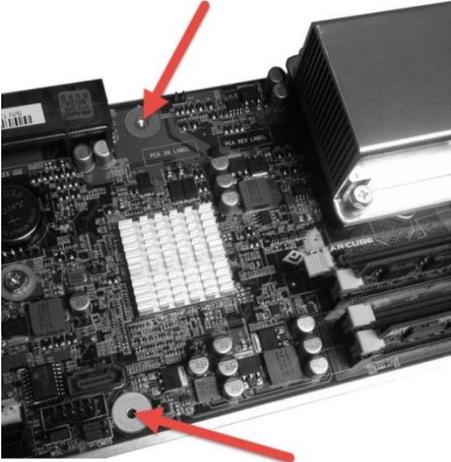
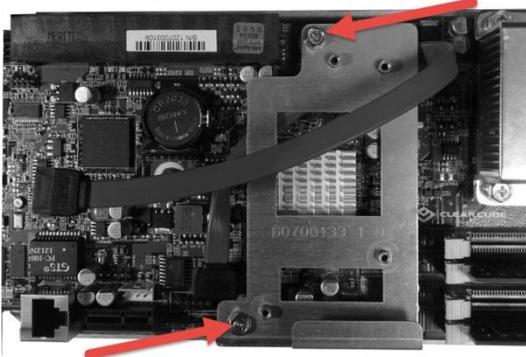
Continued on next page



V5420 Host Card Upgrade Kit for R3082D

Quick Start Guide, Continued

Procedure:
installing the
V5420 Host
Card
(continued)

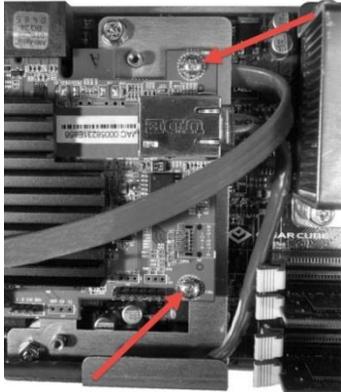
Step	Action
4	<p>Remove the two 6-32 hex screws in the locations shown below, and set them aside to use in step 6.</p>  <p><i>Figure 4. Removing the hex screws from the motherboard</i></p>
5	<p>Insert the included hex standoffs in the locations shown above. Use a 6-32 nut driver to tighten.</p>
6	<p>Place the included host card bracket on top of the hex standoffs as shown below. Use the hex screws you removed in step 4 to fasten the host card bracket to the hex standoffs.</p>  <p><i>Figure 5. Fastening the host card bracket to the hex standoffs</i></p>

Continued on next page



V5420 Host Card Upgrade Kit for R3082D Quick Start Guide, Continued

Procedure:
installing the
V5420 Host
Card
(continued)

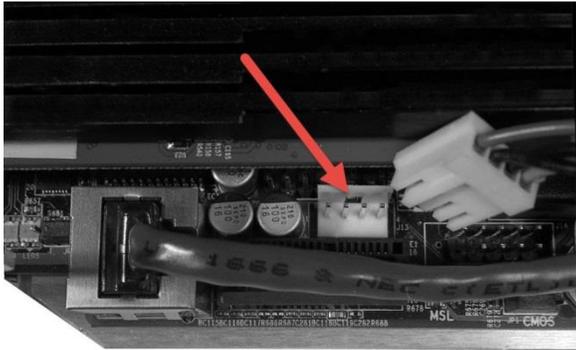
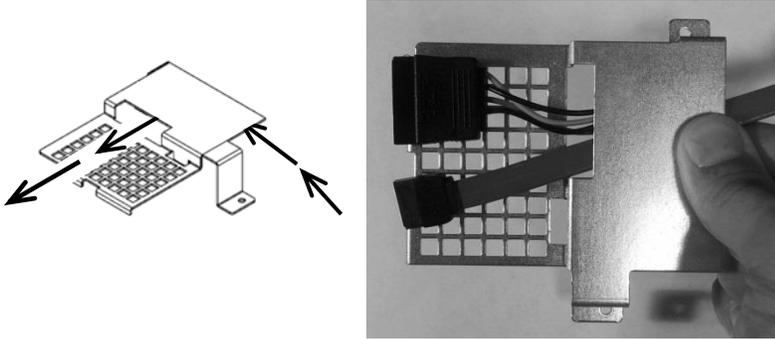
Step	Action
7	<p>Insert the Ethernet cable into the RJ-45 port on the edge of the V5420 host card and route it as shown below.</p>  <p>The image shows the V5420 host card with an Ethernet cable plugged into the RJ-45 port on the right edge. The cable is routed along the perimeter of the card and under a cable guide on the bottom edge of the bracket.</p>
8	<p>Lower the host card and cable onto the bracket, with the host card's gold fingers facing the PCIe connector (ensure the Ethernet cable does not catch on any components). Seat the host card in the PCIe connector by firmly pressing on the edge of the host card.</p> <p>NOTE: <i>Ensure that the Ethernet cable is routed along the perimeter of the host card and under the cable guide on the bottom edge of the bracket as shown in Figure 2 above.</i></p> <p>Plug the other end of the Ethernet cable into the RJ-45 port on the lower edge of the motherboard.</p>
9	<p>Insert two pan head machine screws (included) through the holes on the right edge of the host card into the bracket's threaded supports.</p>  <p>The image shows the host card being inserted into the bracket. Two red arrows point to the holes on the right edge of the host card where the pan head machine screws should be inserted into the bracket's threaded supports.</p> <p><i>Figure 6. Fastening the host card to the host card bracket</i></p>

Continued on next page



V5420 Host Card Upgrade Kit for R3082D Quick Start Guide, Continued

Procedure:
installing the
V5420 Host
Card
(continued)

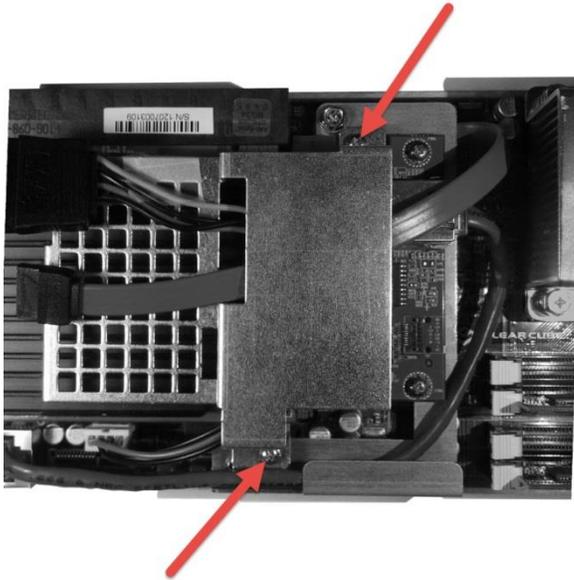
Step	Action
10	<p>Connect the SATA power cable to the motherboard.</p>  <p><i>Figure 7. Connecting the SATA power cable to the header</i></p>
11	<p>Thread both SATA cables through the host card fan guard. Slide the SATA data cable and power cable through the opening as shown in the pictures below.</p> <p>CAUTION: Be sure to route the cables <u>THROUGH</u> the large slot and <u>OVER</u> the fan guard grid, so you can connect them to the hard drive in a later step.</p>  <p><i>Figure 8. Threading power and data cables through the fan guard</i></p>

Continued on next page



V5420 Host Card Upgrade Kit for R3082D Quick Start Guide, Continued

Procedure:
installing the
V5420 Host
Card
(continued)

Step	Action
12	<p>Place the fan guard on the bracket, oriented so the holes in the fan guard legs are aligned with the threaded supports on the bracket. Use two pan head machine screws (included) to fasten the fan guard to the bracket.</p>  <p><i>Figure 9. Fastening the fan guard to the host card bracket</i></p>
13	<p>Replace the hard drive carrier using the screws you set aside in step 2 above.</p>
14	<p>Connect the SATA power and data cables to the hard drive.</p>
15	<p>Place the video configuration label (included in the kit) on the side of the R3082D.</p> <p>NOTE: The video configuration label contains MAC address and serial number information that is critical for deployment and configuration. Be sure to place the label on the blade.</p>

Continued on next page



V5420 Host Card Upgrade Kit for R3082D

Quick Start Guide, Continued

Required software and drivers

Download and install the required software and drivers shown below:

- **PCoIP Host software** (*required*)
A user agent and drivers that provide session-related features from a right-click menu
- **Intel® HD Graphics driver** (*required*)

All host card drivers and software are available on the Support site. From the Support site's **Blade PCs** drop-down menu, select **V5420**. From the V5420 product page, click **drivers**. Install the items in the list above and any other drivers appropriate for your operating system image.

IP address assignments and defaults

ClearCube host cards are configured for environments using a DHCP server. If a DHCP server is unavailable when a host is powered on, the host card uses a default, static IP addresses (*a fallback IP address*). The line below shows the fallback IP addresses of a V5420 Host Card:

- V5420 Host Card—**192.168.1.101**

NOTE: There is a timeout period of **120 seconds** before a host card uses a fallback address.

Administrators can change the address assignment mode of host cards and zero clients from DHCP mode to static mode using the browser-based Administrative interface. See "Using the Web Interface" in *PCoIP System User's Guide* for more information.

Connecting from a zero client

See the Quick Start Guide for your zero client or *PCoIP System User's Guide* for detailed instructions about connecting to a host card from a zero client. Before connecting, be sure you have

- connected the computer to a zero client (and a network switch if applicable), and
- connected monitors to the zero client.

Contacting Support

The table below shows how to contact ClearCube Support.

Web	www.clearcube.com/support/
Email	support@clearcube.com
Toll-free	(866) 652-3400
Direct	(512) 652-3400