

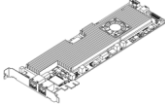










ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide

V5340 kit contents

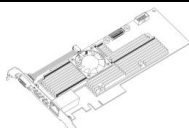


The table below shows the contents of the V5340 Remote Workstation Host Kit.

NOTE: The V5340 Quad Host Card works in tandem with the V5320 Dual Host Card: you must install a V5320 Kit it for a V5340 Kit to operate.

Part	Description
	V5340 Quad Host Card with mounting bracket
	Mounting screws for bracket
	Blue twinaxial cable
	Mounting screws for blue twinaxial cable
	Gray, 10-pin flat cable (ribbon cable)
	CAT5e cable
	Quad Host Card Power Cable (4-pin, Molex® 8981 connector) <i>For computers with “legacy” HDD power connectors</i>
	Quad Host Card Power Cable (8-pin, PCIe® graphics power connector) <i>For computers with auxiliary PCIe graphics power connectors</i>
	Video Configuration Label (with part #, serial #)
<i>This Quick Start Guide</i>	

V5320 kit contents

The table below shows the contents of the V5320 Remote Workstation Host Kit .

Part	Description
	V5320 Dual Host Card with mounting bracket
	Remote Power Cable NOTE: This cable uses a 1 × 2 position female connector to connect to a motherboard. Your device might not support the Remote Power feature if it uses a proprietary power button header.
	Video Configuration Label (with part #, MAC address, serial #)
<i>This Quick Start Guide</i>	

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ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide, Continued

Introduction

ClearCube® V53x0 Remote Workstation Host Kits install in PCIe® slots of standard computers to enable zero clients using PCoIP technology to connect to the computer.

This document explains how to install a V5340 Remote Workstation Host Kit (V5340 Kit from this point forward) and a V5320 Remote Workstation Host Kit (V5320 Kit from this point forward) in a computer.

Cooling and airflow requirements

The list below shows internal temperature and airflow requirement for computers containing a V53x0 Kit. Ensure that

- internal temperature is less than 50 °C, and
 - internal airflow is 30 CFM or greater.
-

Host card and firmware requirements

Ensure that host cards and zero clients

- use the same version TERA firmware
- only use firmware from ClearCube Support, and
- use compatible TERA and COMM firmware (if you are using Quad Host Cards and zero clients).

See the documentation listed at the end of this Guide for information about firmware support and instructions about upgrading firmware.

Required items

Before installing host card kits, be sure you have

- downloaded V53x0 audio and video drivers from clearcube.com/support/
 - a Phillips screwdriver
 - Monitors, video cables, and power supplies:
 - *four* for a V5340 Kit (which includes a V5320 Kit), or
 - *two* for a V5320 Kit
 - a zero client (quad-monitor or dual-monitor as appropriate for your kit), and
-

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ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide, Continued

Required items
(continued)

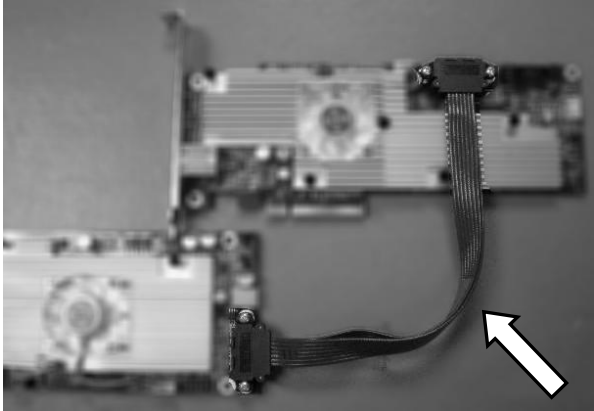
- Ethernet cables (and a network switch, if appropriate for your deployment) to connect to a zero client.

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 V53x0 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.*

Procedure:
connecting
cables

The table below shows how to connect cables to the V53x0 Host Cards before installing them in a computer.

Step	Action
1	As noted above, ensure you take steps to prevent ESD before handling any components.
2	<p>For V5340 Kit only</p> <p>Connect the blue twinaxial cables to both host cards. Connectors are on the top edge of the V5320 and on the right edge of the V5340.</p> 

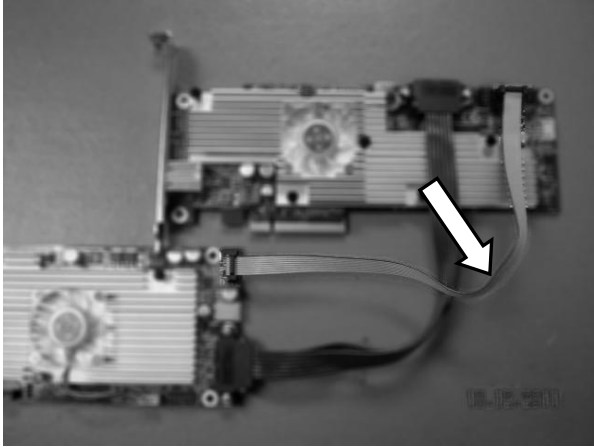
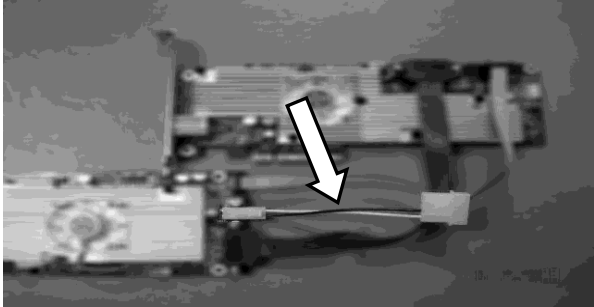
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ClearCube® V53x0 Remote Workstation Host Kit

Quick Start Guide, Continued

Procedure:
connecting
cables
(continued)

Step	Action
3	For V5340 Kit only Secure each end of the blue cable using the 4 screws included in the V5340 Kit.
4	For V5340 Kit only Connect the gray, flat cable to both host cards. Connectors are on the top edge of the V5320 Host Card (to the right of the blue cable) and on the right edge of the V5340 Host Card (above the blue cable). 
5	For V5340 Kit only Connect one of the two V5340 Quad Host card power cables to the V5340 Host Card (<i>because power supplies provide different connector types, the kit includes multiple power cables. Use the cable that matches your power supply's connector</i>). The socket is on the right edge of the V5340 Host Card, between the blue and gray cable connectors (the picture below shows the power cable with a 4-pin, Molex connector). 

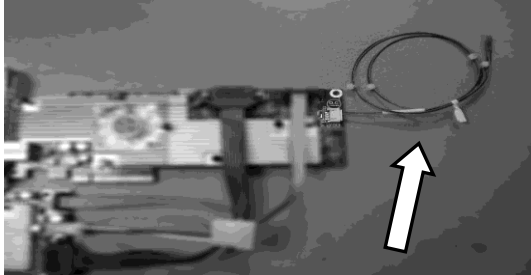
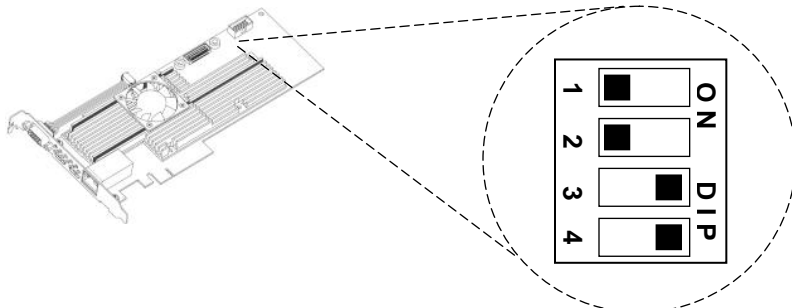
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ClearCube® V53x0 Remote Workstation Host Kit

Quick Start Guide, Continued

Procedure:
connecting
cables
(continued)

Step	Action
6	<p>Optionally, connect the Remote Power Cable</p> <p>NOTE: <i>The Remote Power Cable uses a 1 × 2 position female connector to connect to a motherboard. Your device might not support the Remote Power feature if it uses a proprietary power button header.</i></p> <p>Connect the white, 4-pin connector on the Remote Power Cable to header J7, located on the right edge of the V5320 Host Card.</p> 
7	<p>Ensure that the VGA port is enabled.</p> <p>Set DIP switches 3 and 4 on the V5320 Host Card to the ON position, as shown in the picture below.</p> 

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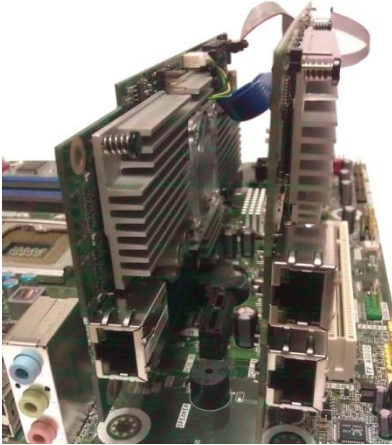


ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide, Continued

Procedure:
installing cards,
cables, and labels

The table below shows how to install the cards you connected in the previous section, how to attach the remaining cables, and apply the Video Configuration Label contained in each kit.

- NOTE:** *Before you begin*
- *remove the computer cover,*
 - *locate the PCIe slots on the computer motherboard, and*
 - *consult your motherboard documentation for the location of the front panel header, and the power button's on/off pins in the header.*

Step	Action						
1	As noted above, ensure you take steps to prevent ESD before handling host cards and computer components.						
2	<p>Install the host card(s) from your kit(s) in PCIe slots that accommodate the card size.</p> <p>NOTE: <i>If you are installing a V5340 Kit, install the V5340 Host Card and the V5320 Host Card.</i></p> <p>The table below shows the size of each card.</p> <table border="1"> <thead> <tr> <th>Host Card</th> <th>PCIe Slot Size</th> </tr> </thead> <tbody> <tr> <td>V5340</td> <td>x1</td> </tr> <tr> <td>V5320</td> <td>x8</td> </tr> </tbody> </table> <p>Press down to ensure that the host card(s) are fully seated.</p> <p>NOTE: <i>If you are installing a V5340 Kit, examine the bend radius of the Ethernet cable linking the V5340 and V5320 Host Cards before fully seating them. Depending on the configuration of your computer and the PCIe slots, it might aid installation to leave an empty slot between the two host cards.</i></p> <p>The picture below shows a quad and a dual host card in a computer, with an empty slot between the host cards to accommodate cable bend radii.</p> 	Host Card	PCIe Slot Size	V5340	x1	V5320	x8
Host Card	PCIe Slot Size						
V5340	x1						
V5320	x8						
3	Attach the host card(s) to the computer chassis using screws that the computer manufacturer provides. Screw holes are located on the top of the host card brackets.						

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ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide, Continued

Procedure:
installing cards,
cables, and
labels
(continued)

Step	Action
4	<p>Optionally, connect the Remote Power Cable</p> <p>Connect the Remote Power Cable's</p> <ul style="list-style-type: none"> • female, two-pin header to the on/off pins in the motherboard's front panel header, and • male, two-pin plug (the shortest segment of the cable) to the computer chassis's power button cable. <p>NOTE: <i>The Remote Power Cable uses a 1 × 2 position female connector to connect to a motherboard. Your device might not support the Remote Power feature if it uses a proprietary power button header.</i></p>
5	<p>For V5340 Kit only</p> <p>Insert one end of the CAT5e cable in the V5320 Host Card's RJ-45 port and insert the other end in the V5340 Host Card's <i>uppermost</i> RJ-45 port (when the card is vertical, as shown below).</p> <div data-bbox="613 1062 1357 1373" data-label="Diagram"> <p>The diagram shows two vertical host cards side-by-side. The left card is labeled 'V5320 Host Card' and has an RJ-45 port near the bottom. The right card is labeled 'V5340 Host Card' and has two RJ-45 ports, with the top one being the 'uppermost'. A blue double-headed arrow points from the RJ-45 port on the V5320 card to the uppermost RJ-45 port on the V5340 card.</p> </div>
6	<p>For V5340 Kit only</p> <p>Connect the Quad Host Card power cable to the computer power supply. (One end of the cable is already connected to the host card.)</p>
7	<p>Replace and secure the computer's cover.</p>
8	<p>Apply Video Configuration Label(s) to the exterior of the computer so they are accessible and easy to view (if you are installing a V5340 Kit, ensure that you apply the label from the V5340 Kit <i>and</i> the label from the V5320 Kit).</p> <p>NOTE: <i>Video Configuration Labels contain information that is important for configuration, administration, and more.</i></p>

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ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide, Continued

Procedure:
installing cards
cables, and
labels
(continued)

Step	Action
9	<p data-bbox="565 464 1403 527">Use an Ethernet cable (not included) to connect the host card to a zero client. The table below shows which RJ-45 port to use for each host card.</p> <p data-bbox="565 548 727 579">V5340 Only:</p> <p data-bbox="565 579 1403 709">The V5340 Host Card has two RJ-45 ports. Connect an Ethernet cable to the <i>bottommost</i> RJ-45 port (when the host card is vertical, as shown below), and connect the other end to a Quad zero client. Depending on your deployment, you might need to connect to a network switch.</p> <div data-bbox="594 747 1395 1142"> <p data-bbox="594 747 911 779">V5320 Dual V5340 Quad</p> <p data-bbox="1260 747 1395 804">Quad Zero Client</p> <p data-bbox="992 852 1198 909">Optional Network Switch</p> </div> <p data-bbox="565 1178 727 1209">V5320 Only:</p> <p data-bbox="565 1209 1360 1308">Connect an Ethernet cable to the V5320 Host Card's single RJ-45 port, and connect the other end to a Dual zero client. Depending on your deployment, you might need to connect to a network switch.</p> <div data-bbox="675 1346 1304 1745"> <p data-bbox="675 1346 816 1377">V5320 Dual</p> <p data-bbox="1170 1356 1304 1413">Dual Zero Client</p> <p data-bbox="902 1451 1109 1507">Optional Network Switch</p> </div>

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ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide, Continued

**Procedure:
driver
installation**

The table below shows how to install required audio and video drivers on the computer from a local connection.

NOTE: *Before you begin, ensure you have*

- *downloaded V53x0 audio and video drivers from www.clearcube.com/support/, and*
- *a monitor and VGA video cable or a VGA adapter.*

Step	Action
1	Connect a monitor to the VGA port on the rear of V5320 Host Card. Power on the monitor and the computer.
2	Install the audio and video drivers from ClearCube Support on the computer containing the host card(s).
3	Configure displays using the video driver interface or the display configuration utilities your OS provides. See <i>PCoIP System User's Guide</i> for information about configuring monitors.

**IP address
assignment 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 list below shows these fallback IP address.

- V5340 Host Card—**192.168.0.41**
- V5320 Host Card—**192.168.1.101**

NOTE: *There is a timeout period of 90 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**

Before you begin, ensure you have

- *installed video and audio drivers from ClearCube Support on the computer,*
- *connected the computer to a zero client (and a network switch if applicable), and*
- *connected monitors to the zero client*


The table below shows how to use a Dual or Quad zero client to connect to the computer in which you installed a Host Card Kit.

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ClearCube® V53x0 Remote Workstation Host Kit Quick Start Guide, Continued

Connecting from a zero client (continued)

Step	Action
1	Ensure the zero client and computer are powered on.
2	Once available, click the Connect button on the zero client's Connect screen. The figure below shows the Connect screen dialog box. 
3	The zero client's <i>on-screen display</i> (OSD) shows host cards available on the network. Select a host cards to connect to and click OK . NOTE: <i>The OSD displays available host cards by host card IP address—not the network adapter IP address. The video configuration label (included in each Host Card Kit) shows the host card's MAC address, which can help you find the card's IP address if necessary.</i>
4	Once connected to the computer, configure video settings for dual or quad displays, as appropriate. You can use the video driver utility, the operating system display properties, or both.

For more information

The list below shows additional resources available from the ClearCube Support site.

- *PCoIP System User's Guide*
- *PCoIP Device Firmware Support and Compatibility Guide*
- *Tech Bulletin TB00266: The Remote Host Power Button*

Contacting Support

The table below shows how to contact ClearCube Support.

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