

# ETC<sup>®</sup> Setup Guide

## Emphasis<sup>®</sup> Dual-Video Card Installation (2006 Edition)



### Introduction

This setup guide provides instructions for installing a new dual-video card in your 2006 or later ETC Emphasis 2D Server (ETC part number 4200A2010). It also includes instructions for changing the required BIOS settings in order to use the new video card.

Installing a video card requires you to open and work inside your server. While the installation process is uncomplicated, you may not feel comfortable working inside your server. If this is the case, please contact ETC Technical Services to arrange for a factory upgrade of your video card.



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**Note:** *This guide details installation for ETC manufactured Emphasis servers (first shipped in 2006). If your Emphasis server is manufactured by Dell (pre-2006), please refer to the previous guide, **Emphasis Dual Video Card Installation** (Part number 4200M2210 Rev E), available for download from the ETC website.*

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**CAUTION:** *You can damage your server's components if you do not take certain precautions. Electrostatic Discharge (ESD), is caused by static electricity. It can cause immediate or subtle damage to sensitive electronic parts.*

*You can reduce the chances of ESD damage by doing the following:*

- *Leave the new video card in its protective packaging until you need to install it.*
- *Turn the power to the computer off and wait several minutes before starting to work.*
- *Ground yourself by touching the case of the computer.*
- *Touch only the items that must be replaced.*
- *Avoid walking around while replacing items inside the case, especially if you are on carpet or during conditions of low temperature and low humidity.*
- *When you remove the video card, don't touch the metal edge connectors at the bottom of the card that mate to the system board. Handle the card by its edges. Do not place it on plastic surfaces.*

*By following these guidelines, you will greatly reduce the chances of ESD damage to your server and video card.*

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### Kit Contents

Dual Video Upgrade Kit (ETC part number 4200A1108) consists of:

- Video Card (ETC part number M8085-F)
- Dual DVI "Y" Cable
- 2 AVI-VGA Adapters
- This setup guide

### Tools Required

- #1 Phillips (cross-head) screwdriver



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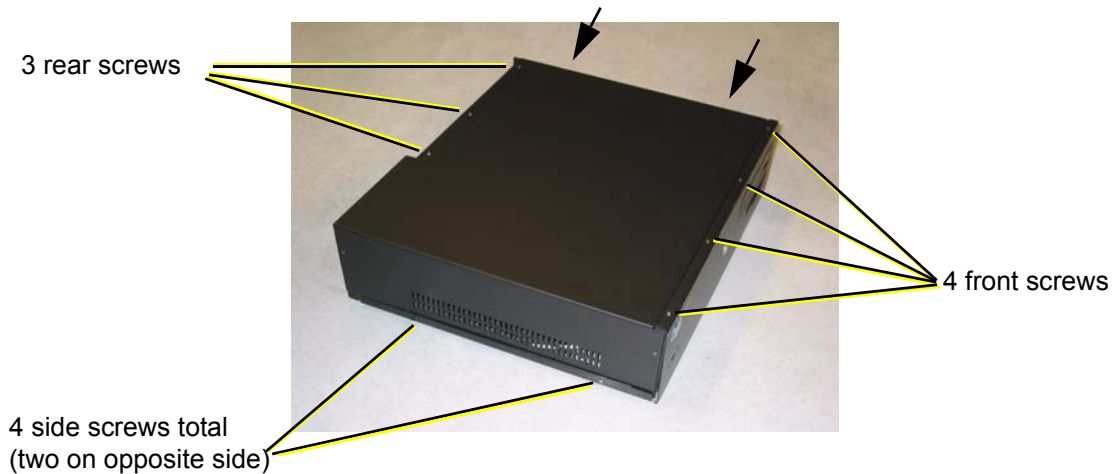
## Emphasis Dual-Video Card Installation (2006 Edition)

### Installation

Before beginning installation, place your Emphasis server on a stable, flat surface. You may want to have a container available to place the server housing screws in.

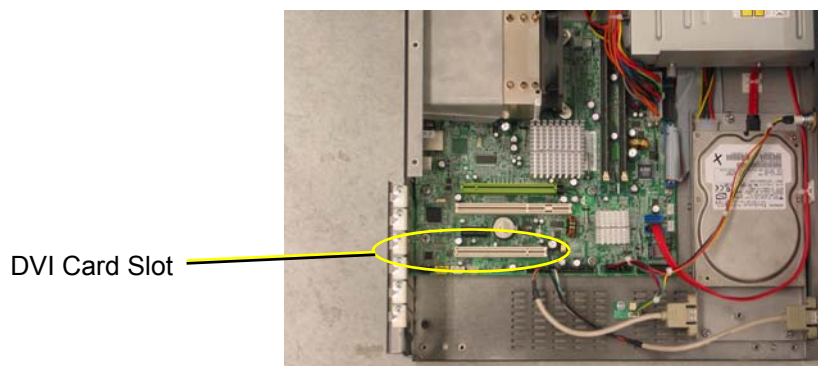
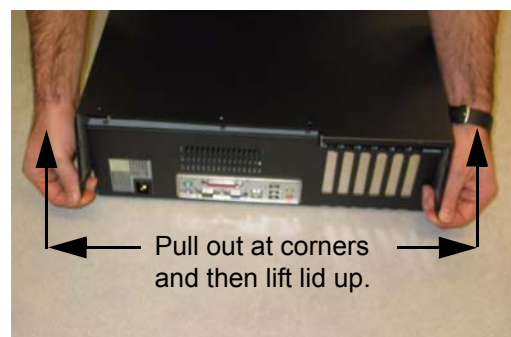
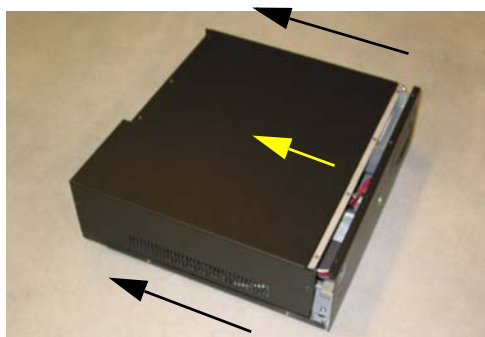
#### Open the server:

**Step 1:** Remove the 11 screws holding the server lid on. Screw locations are indicated below.



**Step 2:** Pushing from the front of the server, slide the server lid backwards.

**Step 3:** Grab the server lid by the bottom rear corners. Pull them out to avoid damaging the gaskets and then lift upwards. This will remove the cover and expose the inside of the server.



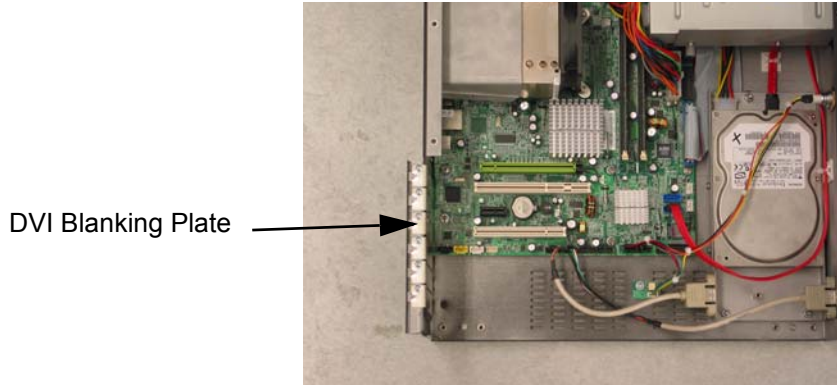
# Setup Guide:

## Emphasis Dual-Video Card Installation (2006 Edition)

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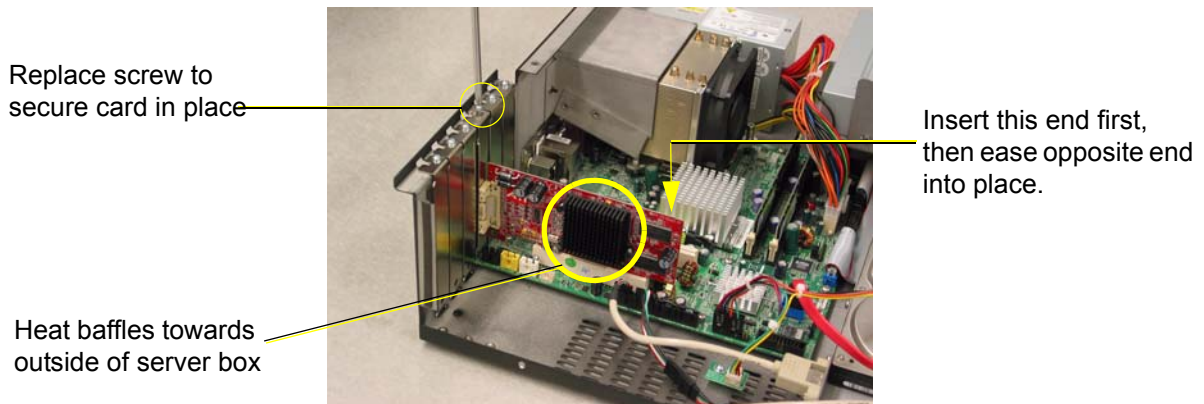
### Install DVI card:

**Step 1:** Remove the blanking plate from the video card slot. One screw holds this plate in place, indicated below.



**Step 2:** Insert the Dual DVI card into the video card slot. Make sure the heat baffles face to the outside of the server. When installing, be careful not to damage the gasket around the card slot. To avoid this, insert the furthest interior end of the card into the slot first, followed by the end closest to the server shell.

**Step 3:** Replace the screw that holds the card in place. *Do not overtighten the screw.*



### Replace server cover:

**Step 1:** Make sure all cables and other parts are within the boundaries of the server shell. Do not allow them to be pinched between the server lid and body.

**Step 2:** Place the lid flanges into the bottom rails. Pull apart the bottom rear corners and push the lid into place, being careful not to disrupt the gasket.

**Step 3:** Replace the 11 screws to secure the lid in place.

# Setup Guide:

## Emphasis Dual-Video Card Installation (2006 Edition)

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### *Change BIOS Settings*

In addition to installing the video card, you must also alter the BIOS settings of your Emphasis server. Follow the procedure outlined below.

#### **Change BIOS Settings:**

**Step 1:** Boot the Emphasis server.

**Step 2:** While the server is booting, press **[Delete]** on the alphanumeric keyboard to enter the BIOS Setup.

**Step 3:** Use the arrow keys to navigate to “PnP/PCI Configurations”. Press **[Enter]**.

**Step 4:** Navigate to “Init Display First”. Press **[Enter]** to display options.

**Step 5:** Use arrow keys to select “PCI Slot”. Press **[Enter]**.

**Step 6:** Press **[Esc]** to return to the main BIOS Screen.

**Step 7:** Press **[F10]** to save the settings and exit. You will be asked to confirm. Press **Y** for “Yes” and then **[Enter]**. Your Emphasis Server will reboot.

This completes the installation of your dual video card.