

Dell T3400 Workstation Manual



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Book Descriptions:

Dell T3400 Workstation Manual

Watch this video for help in locating the source of the issue, and troubleshooting the most common causes in Windows 8, Windows 8.1 and Windows 10. Closed captions available in many languages. Watch this video for help in locating the source of the issue, and troubleshooting the most common causes in Windows 8, Windows 8.1 and Windows 10. Closed captions available in many languages. You may find documents other than just Croatian, Danish, Finnish, Norwegian, Polish, Russian, Swedish English, Japanese, Korean, Simplified Chinese, Traditional Chinese French, Portuguese, Spanish We keep our list of direct Dell Precision T3400 driver and firmware links up to date so they are easy to find when you need them. You might not need every tool for every procedure. A newer model of this PC exists, but the T3400 is not obsolete. The T3400 is still widely used in offices. Users desire to stretch their investments as far as possible by performing repairs and upgrades to the PC tower. The front also has two USB 2.0 ports. The system can be set up either as a tower or a desktop. In the back there are six USB 2.0 connections, the Ethernet connection. There is also a lever at the top of the case which releases the side door for internal access. The dual slot 9800 GTX video card is also installed upright, along with the heatsink. The standard 375W power supply is included. More often, however, the CPU is upgraded as the users' demands for performance increase. CPU Replacement RAM Replacement Video Card Replacement There may be an instance where the user prefers to switch this standard drive with a CDRW drive for not only reading CDs but burning them as well. Alternatively, they may wish to replace the drive with a DVD or DVDRW drive, because DVDs hold significantly more data than CDs. Optical Drive Upgrade. The second generation xx20 Precision laptops support the E Series docking station for the 7520 and 7720 models, but not for the 3520 and 5520 models. <http://blentech.ru/pic/inspiron-mini-10-manual.xml>

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The third generation xx30 Precision laptops no longer support the E Series docking station. W5170M 2GB GDDR5 or W7170M 4GB GDDR5 or NVIDIA Quadro M3000M 4GB GDDR5 or M4000M 4GB GDDR5 or M5000M 8GB GDDR5 Windows 10, Ubuntu 16.04 LTS This has several downsides the power consumption during low load is high and thus the battery runtimes clearly suffer despite the high capacity battery, and Intel's QuickSync Video cannot be used. IPS panel option dropped; also eDP connector not factory fitted on a motherboard Only two memory slots usable with dual core CPUs slots under keyboard are blanked off with a plastic spacer. Last Precision with a RGBLED display option Last Precision with a 1610 display They are compatible with the D Series docking stations, and there are various accessories that are interchangeable with other Dell models, such as the battery or CD drive, depending on the Precision model. Evidence suggests that some GU083 motherboards support QuadCore. You must upgrade the bios to version A07 before attempting to install a Paxville CPU. Retrieved 20170120. Retrieved March 25, 2015. Retrieved 20080128. CS1 maint archived copy as title link By using this site, you agree to the Terms of Use and Privacy Policy. NOTICE A NOTICE indicates a potential for damage to hardware or loss of data and tells you how to avoid the problem. Reproduction in any manner whatsoever without the written permission of Dell Inc. Computrace and Absolute are registered trademarks of Absolute Software Corporation. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other

than its own. Some features or media may not be available in certain countries. NOTE Additional information may ship with your computer. What Are You Looking For. Documentation and drivers are already installed on your computer. [http://www.cgeminfos.ma/upload/inspiron-mini-1012-manual\(1\).xml](http://www.cgeminfos.ma/upload/inspiron-mini-1012-manual(1).xml)

Readme files may be included on your disc to provide lastminute updates about technical changes to your computer or advanced technicalreference material for technicians or experienced users. Drivers and documentation updates can be found at support.dell.com. Find It Here What Are You Looking For. Find It Here DSS is necessary for correct operation of your Dell computer. NOTE The support.dell.com user interface may vary depending on your selections. Find It Here NOTE The color of your operating system installation media varies according to the operating system you ordered. Find It Here NOTE It is recommended that you use the back USB connectors for devices that typically remain connected, such as printers and keyboards. 8 Dell badge rotatable Use the plastic handle on the back of the Dell badge to rotate the badge for tower todesktop or desktopto tower conversion. 9 power button Press to turn on the computer. NOTICE To avoid losing data, do not use the power button to turn off the computer. Instead, perform an operating system shutdown. NOTICE If your operating system has ACPI enabled, when you press the power button the computer will perform an operating system shutdown. NOTE The voltage selection switch is available on the 375W PSU only. 3 back panel connectors Plug serial, USB, and other devices into the appropriate connector. 1 2 3 4 NOTE The upper five connector slots support fulllength cards; the connector slot at the bottom supports a halflength card. NOTE Check the documentation for cards to ensure that you can accommodate them in your configuration. Some cards that require more physical space and power such as PCI Express graphics cards may restrict the use of other cards. 1 upper 5.25inch drive bay Supports an optical drive. 2 lower 5.25inch drive bay Supports an optical drive or an additional hard drive SATA only. 3 3.5inch drive bay Supports a floppy drive or a Media Card Reader.

4 hard drive activity light The hard drive activity light is on when the computer reads data from or writes data to the hard drive. The light may also be on when a device such as an optical drive is in operation. 1 2 7 8 9 10 11 12 3 4 5 6 NOTICE To avoid losing data, do not use the power button to turn off the computer. NOTICE If your operating system has ACPI enabled, when you press the power button the computer will perform an operating system shutdown. NOTE The power button can also be used to wake the system or to place it into a power saving state. NOTE Check the documentation for cards to ensure that you can accommodate them in your configuration. Some cards that require more physical space and power such as PCI Express graphics cards may restrict the use of other cards. 2 power connector Insert the power cable. 3 voltage selection switch See the safety instructions in the Product Information Guide for more information. NOTE The voltage selection switch is available on the 375W PSU only. 4 back panel connectors Plug serial, USB, and other devices into the appropriate connector. 3 2 4 1 If you have a USB mouse, plug it into a USB connector. 2 parallel connector Connect a parallel device, such as a printer, to the parallel connector. If you have a USB printer, plug it into a USB connector. NOTE The integrated parallel connector is automatically disabled if the computer detects an installed card containing a parallel connector configured to the same address. Connect the other end of the network cable to the network adapter connector on your computer. A click indicates that the network cable has been securely attached. NOTICE Do not plug a telephone cable into the network connector. On computers with an additional network connector card, use the connectors on the card and on the back of the computer when setting up multiple network connections such as a separate intra and extranet.

<https://www.informaquiz.it/petrgenesis1604790/status/flotaganis18032022-1645>

It is recommended that you use Category 5 wiring and connectors for your network. If you must use Category 3 wiring, force the network speed to 10 Mbps to ensure reliable operation. 5 network

activity light The network activity light is on flashing when the computer is transmitting or receiving network data. A high volume of network traffic may make this light appear to be in a steady on state.

6 lineout connector Use the green lineout connector to attach headphones and most speakers with integrated amplifiers. On computers with a sound card, use the connector on the card.

8 Rear Dual USB 2.0 connectors 2 Use the back USB connectors for devices that typically remain connected, such as printers and keyboards. NOTE It is recommended that you use the front USB connectors for devices that you connect occasionally, such as flash memory keys or cameras, or for bootable USB devices. NOTE It is recommended that you use the front USB connectors for devices that you connect occasionally, such as flash memory keys or cameras, or for bootable USB devices.

10 serial connector Connect a serial device, such as a handheld device, to the serial port. If you have a USB keyboard, plug it into a USB connector. NOTE Your computer does not support registered or buffered memory. See the documentation for your graphics card for power requirements.

Supported Configurations 375 W PSU 75 W PCI Express x16 single or dual NOTE 150W PCI Express x16 graphics card not supported. 525 W PSU 75 W PCI Express x16 single or dual; 150 W PCI Express x16 single or dual; 225 W PCI Express x16 and 75 W PCI Express x16

Connectors Connectors and media devices that are deactivated make resources available. You must restart the computer to effect the changes.

IT Assistant manages assets, configurations, events alerts, and security for computers equipped with industry standard management software and supports instrumentation that conforms to SNMP, DMI, and CIM industry standards.

<http://chateau-malbrouck.com/images/Craftsman-Wood-Lathe-Model-113-Manual.pdf>

Dell OpenManage Client instrumentation, which is based on DMI and CIM, is available for your computer. For information on IT Assistant, see the Dell OpenManage IT Assistant User's Guide available on the Dell Support website at support.dell.com. For information about Dell OpenManage Client Instrumentation, see the Dell OpenManage Client Instrumentation User's Guide available on the Dell Support website at support.dell.com.

Power Management Your computer can be set to use less power when you are not working. You control the power usage through the operating system installed on your computer and certain option settings in System Setup. Waking the computer from Hibernate restarts the computer, and restores the data stored in system memory. The computer then returns to the operating state it was in prior to entering hibernation mode. Your network administrator can also remotely start your computer using a power management event such as Remote Wake Up. For more information, see the manufacturer's documentation for each component. The following table lists the sleep states and the corresponding methods you can use to wake the computer. NOTE For more information on power management, see your operating system documentation.

There are several RAID configurations available in the computer industry for different types of uses. All drives must be the same type SAS and SATA drives cannot be mixed in a RAID array and should also be the same size to ensure that the larger drive does not contain unallocated and therefore unusable space. The Intel RAID controller on your computer can only create a RAID level 0 configuration using two or three physical drives. NOTE RAID levels do not represent a hierarchy. A RAID level 10 configuration is not inherently better or worse than a RAID level 0 configuration.

Using RAID with Hard Drive Passwords If you are using the hard drive security option available in System Setup you should not use a RAID configuration.

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Using a RAID configuration requires that the hard drive password be cleared to allow data access. To protect your data when using a RAID level 0 configuration, perform regular backups. RAID level 0 uses a storage technique known as data striping to provide a high data access rate. Data striping is a method of writing consecutive segments, or stripes, of data sequentially across the physical drives to create a large virtual drive. Data striping allows one of the drives to read data while the other drive is searching for and reading the next block. Another advantage of a RAID level 0 config

uration is that it utilizes the full storage capacities of the drives. For example, two 120GB hard drives combine to provide 240 GB of hard drive space on which to store data. NOTE In a RAID level 0 configuration, the size of the configuration is equal to the size of the smallest drive multiplied by the number of drives in the configuration. RAID Level 1 RAID level 1 uses a data redundancy storage technique known as mirroring to enhance data integrity. When data is written to the primary drive, the data is also duplicated, or mirrored, on the second drive in the configuration. A RAID level 1 configuration sacrifices high data access rates for its data redundancy advantages. A replacement drive can then be rebuilt using the data from the surviving drive. NOTE In a RAID level 1 configuration, the size of the configuration is equal to the size of the smallest drive in the configuration. RAID Level 5 RAID level 5 uses a data staging storage technique known as data parity. When data is written to the primary drive, the data is duplicated on at least three other drives. Unlike a RAID level 1 configuration which writes to one other volume that acts as a data mirror, a RAID level 5 configuration writes data to each drive in increments, placing data from each segment across multiple drives.

A RAID level 5 configuration has higher data access rates, but requires more storage space than a RAID level 0 or RAID level 1 configuration. A replacement drive can then be rebuilt using the data from the surviving drives. NOTE In a RAID level 5 configuration, the size of the configuration is equal to the size of the smallest drive in the configuration multiplied by three. When data is written to the primary drive, the data is then duplicated on four other drives. Unlike a RAID level 1 configuration which writes to one other volume that acts as a data mirror, a RAID level 10 configuration writes data to each drive in increments which places data from each segment across multiple drives. A RAID level 10 configuration has higher data access rates but requires more storage space than a RAID level 0 or RAID level 1 configuration. A replacement drive can then be rebuilt using the data from the surviving drives. NOTE In a RAID level 10 configuration, the size of the configuration is equal to the size of the smallest drive in the configuration multiplied by two. Configuring Your Computer for RAID At some point you may want to configure your computer for RAID if you did not select a RAID configuration when you purchased your computer. You must have at least two hard drives installed in your computer to set up a RAID configuration. You can use one of two methods to configure RAID hard drive volumes. One method uses the Intel RAID Option ROM utility and is performed before you install the operating system onto the hard drive.

The second method uses the Intel Matrix Storage Manager, or Intel Matrix Storage Console, and this method is performed after you have installed the operating system and the hard drive 1 segment 1 segment 2 segment 3 hard drives 2, 3, and 4 segment 4 segment 5 segment 6 segment 1 striped across 4 drives segment 2 striped across 4 drives segment 3 striped across 4 drives segment 4 striped across 4 drives segment 5 striped across 4 drives segment 6 striped across 4 drives serial ATA RAID configured for RAID level 10 Both methods require that you set your computer to RAID enabled mode before starting any of the RAID configuration procedures in this document. In a RAID level 0 configuration, the size of the configuration will be the size of the smallest drive multiplied by the number two of drives in the configuration. In a RAID level 1 configuration, the size of the configuration will be the smaller of the two drives used. Creating a RAID Level 0 Configuration NOTICE You will lose any data on your hard drives when you create a RAID configuration using the following procedure. Back up data that you want to keep before continuing. NOTE Use the following procedure only if you are reinstalling your operating system. NOTE Select the strip size closest to the size of the average file that you want to store on the RAID volume. If you do not know the average file size, choose 128 KB as your strip size. 7 Press the up and down arrow keys to change the strip size and press. 8 Select the desired capacity for the volume and press. The default value is the maximum available size. 8 Press to create the volume. 9 Press to confirm that you want to create the RAID volume. 10 Confirm that the correct volume configuration is displayed on the main Intel RAID Option ROM utility screen. NOTE If your computer currently boots to RAID

and you delete the RAID volume in the Intel RAID Option ROM utility, your computer will become unbootable.

1 Press when you are prompted to enter the Intel RAID Option ROM utility. To add a third hard drive in your RAID level 0 volume, click the right arrow and click on the third drive until three drives appear in the Selected window, and then click Next. 6 In the Specify Volume Size window, click the Volume Size desired, and then click Next. 7 Click Finish to create the volume, or click Back to make changes. NOTE If you do not see an Actions menu option, you have not yet set your computer to RAIDenabled mode. 3 On the Actions menu, select Create RAID Volume to launch the Create RAID Volume Wizard. 4 Click Next at the first screen. 5 Confirm the volume name, select RAID 1 as the RAID level, and then click Next to continue. 6 On the Select Volume Location screen, click the first hard drive you want to use to create your RAID level 1 volume, and then click the right arrow. Click a second hard drive until two drives appear in the Selected window, and then click Next. 7 In the Specify Volume Size window, select the Volume Size desired and click Next. 8 Click Finish to create the volume, or click Back to make changes. 9 Follow Microsoft Windows procedures for creating a partition on the new RAID volume. Click two or three additional drives until either three or four drives appear in the Selected window, and then click Next. 7 In the Specify Volume Size window, select the Volume Size desired and click Next. 8 Click Finish to create the volume, or click Back to make changes. 9 Follow Microsoft Windows procedures for creating a partition on the new RAID volume. NOTE If you do not see an Actions menu option, you have not yet set your computer to RAIDenabled mode. Click three additional drives until four drives appear in the Selected window, and then click Next. 7 In the Specify Volume Size window, select the Volume Size desired and click Next. 8 Click Finish to create the volume, or click Back to make changes.

9 Follow Microsoft Windows procedures for creating a partition on the new RAID volume. Deleting a RAID Volume NOTE While this procedure deletes the RAID 1 volume, it also splits the RAID 1 volume into two nonRAID hard drives with a partition, and leaves any existing data files intact. NOTE Select the stripe size closest to the size of the average file you want to store on the RAID volume. If you do not know the average file size, choose 128 KB as your stripe size. 7 Select the appropriate stripe size from the dropdown box, and then click Next. NOTE Select the hard drive that you want to use as your source hard drive it should be the hard drive containing the data or operating system files that you want to keep on the RAID volume. 8 On the Select Source Hard Drive screen, doubleclick the hard drive from which you want to migrate, and click Next. 9 On the Select Member Hard Drive screen, doubleclick the hard drives to select the member drives to span the stripe array, and click Next. 10 On the Specify Volume Size screen, select the Volume Size you want, and click Next. NOTE In step 11, all data contained on the member drive will be removed. 11 Click Finish to start migrating, or click Back to make changes. You can use your computer normally during the migration process. NOTE Select the hard drive that you want to use as your source hard drive it should be the hard drive containing the data or operating system files that you want to keep on the RAID volume. 7 On the Select Source Hard Drive screen, doubleclick the hard drive from which you want to migrate, and click Next. 8 On the Select Member Hard Drive screen, doubleclick the hard drive to select the member drive that you want to act as the mirror in the configuration, and click Next. 9 On the Specify Volume Size screen, select the volume size you want, and click Next. NOTE In step 10, all data contained on the member drive will be removed.

10 Click Finish to start migrating, or click Back to make changes. You can use your computer normally during migration process. NOTE Select the hard drive that you want to use as your source hard drive it should be the hard drive containing the data or operating system files that you want to keep on the RAID volume. 7 On the Select Source Hard Drive screen, doubleclick the hard drive from which you want to migrate, and click Next. 8 On the Select Member Hard Drive screen,

doubleclick the two or three drives to select the member drives that you want to use in the configuration, and click Next. 9 On the Specify Volume Size screen, select the volume size you want, and click Next. NOTE In step 10, all data contained on the member drive will be removed. 10 Click Finish to start migrating, or click Back to make changes. You can use your computer normally during migration process. NOTE If you do not see an Actions menu option, you have not yet set your computer to RAIDenabled mode. 3 On the Actions menu, click Create RAID Volume From Existing Hard Drive to launch the Migration Wizard. 4 Click Next on the first Migration Wizard screen. 5 Enter a RAID volume name or accept the default. NOTE Select the hard drive that you want to use as your source hard drive it should be the hard drive containing the data or operating system files that you want to keep on the RAID volume. 7 On the Select Source Hard Drive screen, doubleclick the hard drive from which you want to migrate, and click Next. 8 On the Select Member Hard Drive screen, doubleclick the three drives to select the member drives that you want to use in the configuration, and click Next. 9 On the Specify Volume Size screen, select the volume size you want, and click Next. Creating a Spare Hard Drive A spare hard drive may be created with a RAID level 1 configuration.

The spare hard drive will not be recognized by the operating system, but you will be able to see the spare drive from within Disk Manager or the Intel RAID Option ROM utility. When a member of the RAID level 1 configuration is broken, the computer automatically rebuilds the mirror configuration using the spare hard drive as the broken member's replacement. To remove spare marking from a spare hard drive 1 Rightclick the spare hard drive icon. 2 Click Reset Hard Drive to NonRAID NOTE To change your computer to either the tower or the desktop orientation, you must use an optional kit available from Dell. Follow the guidelines below when installing your computer in an enclosure NOTICE The operating temperature specified in this manual reflects the maximum ambient operating temperature. The ambient room temperature must be a consideration when installing your computer in an enclosure. To transfer data over a serial connection, you must use the Network Connections utility in the Control Panel to perform additional configuration steps, such as setting up an advanced connection and designating the host computer and the guest computer. This information may not be available in certain countries. Using the Files and Settings Transfer Wizard requires the Operating System installation media that came with your computer or a wizard disk, which the wizard can create for you. Do not click Next. COPY DATA FROM THE SOURCE COMPUTER 1 Insert the Windows XP Operating System installation media into the source computer. The Welcome to Microsoft Windows XP screen appears. 2 Click Perform additional tasks. 3 Under What do you want to do, click Transfer files and settings. The Files and Settings Transfer Wizard window appears. 4 Click Next. 5 Under Which computer is this, click Old Computer, then click Next. 6 Under Select a transfer method, click the transfer method of your choice, then click Next.

7 Under What do you want to transfer, click to select the data you want to transfer, then click Next. The selected data is copied and the Completing the Collection Phase screen appears. 8 Click Finish. TRANSFER DATA TO THE DESTINATION COMPUTER 1 Go to the destination computer. 2 Under Now go to your old computer, click Next. The wizard reads the collected files and settings and applies them to the destination computer. When the transfer is complete, the Finished screen appears. 4 Click Finished, and then restart the computer. Files and Settings Transfer Wizard Without the Operating System Media To run the Files and Settings Transfer Wizard without the Operating System installation media, you must create a wizard disk. The wizard disk allows you to create a backup image file on removable media. NOTE The Files and Settings Transfer Wizard designates the source computer from which data is to be transferred as the old computer, and designates the destination computer to which the data is going to be transferred as the new computer. The selected data is copied and the Completing the Collection Phase screen appears. 7 Click Finish. TRANSFER DATA TO THE DESTINATION COMPUTER 1 Go to the destination

computer. 2 Under Now go to your old computer, click Next. 3 Under Where are the files and settings, click to select the method you chose for transferring your settings and files, then click Next. The wizard reads the collected files and settings and applies them to the destination computer. When the transfer is complete, the Finished screen appears. 4 Click Finished, and then restart the computer. Follow the instructions provided on the screen by the Windows Easy Transfer wizard. Some surge protector manufacturers include warranty coverage for certain types of damage. Carefully read the device warranty when choosing a surge protector and compare joule ratings to determine the relative effectiveness of different devices.

A device with a higher joule rating offers more protection. **NOTICE** Most surge protectors do not protect against power fluctuations or power interruptions caused by nearby lightning strikes. When lightning occurs in your area, disconnect the telephone line from the telephone wall jack and disconnect your computer from the electrical outlet. Many surge protectors have a telephone jack for modem protection. See the surge protector documentation for modem connection instructions. **NOTICE** Not all surge protectors offer network adapter protection. Disconnect the network cable from the network wall jack during electrical storms. **Line Conditioners** **NOTICE** Line conditioners do not protect against power interruptions. Line conditioners are designed to maintain AC voltage at a fairly constant level. **Uninterruptible Power Supplies** **NOTICE** Loss of power while data is being saved to the hard drive may result in data loss or file damage. **NOTE** To ensure maximum battery operating time, connect only your computer to a UPS. Connect other devices, such as a printer, to a separate power strip that provides surge protection. A UPS protects against power fluctuations and interruptions. UPS devices contain a battery that provides temporary power to connected devices when AC power is interrupted. The battery charges while AC power is available. See the UPS manufacturer documentation for information on battery operating time and to ensure that the device is approved by Underwriters Laboratories UL. **The Chassis Intrusion Detection feature** detects when the computer chassis is or has been opened and alerts the user. If the computer cover is opened, the setting changes to Detected; however, no alert message appears during the boot routine at the next computer start up. **Security Cable Lock** **NOTE** Your computer does not ship with a security cable lock. A security cable lock is a commercially available antitheft device.

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