

I'm not robot!

Standard C8303 (7 A, 125 V) conugration.4. The exible cord must be Type RVV, 3-conductor, 0.75-mm² conductor size. Power cord set settings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country or region where it will be used.102 Chapter 12 Power cord set requirementsPage 14M.2 SATA solid-state drive specifications 128-GB* 256-GB* 512-GBHeight 1.35 mm 1.35 mmWeight < 10 g < 10 g < 10 gForm factor M.2 2280-D2-B-M M.2 2280-D2-B-M M.2 2280-D2-B-MTransfer rate up to 540 MB/sec up to 540 MB/sec up to 540 MB/secInterface type SATA-3 SATA-3 SATA-3Ready time, maximum (to not busy) 1.0 ms < 1.0 ms < 1.0 msAccess times, logical 0.1 ms 0.1 ms 0.1 msTotal logical sectors 234,441,648 468,883,296 937,766,592Operating temperature 0°C to 70°C (32°F to 158°F)*1 GB = 1 billion bytes when referring to hard drive storage capacity. Actual accessible capacity is less. Actual drive specifications may differ slightly.NOTE: Certain restrictions and exclusions apply. Contact technical support for details.100 Chapter 11 SpecificationsPage 153. Enter the product name or number.– or –Select Identify now to let HP automatically detect your product.4. Select your computer, and then select your operating system.5. In the Diagnostic section, follow the on-screen instructions to select and download the UEFI version you want.Additional BIOS crisis recovery toolHP provides a BIOS crisis recovery tool through the HP PC Hardware Diagnostics 3-in-1 USB key. This tool can be used by HP authorized service providers to recover systems that have failed due to a corrupted BIOS. For more information about using the 3-in-1 USB key for BIOS crisis recovery, go to . Additional information is included in the web-based training oered by HP University. See the modules that cover HP PC Hardware Diagnostics (UEFI).Downloading HP PC Hardware Diagnostics (UEFI) to a USB device 91Page 169 Using HP PC Hardware Diagnostics (UEFI)HP PC Hardware Diagnostics is a Unified Extensible Firmware Interface (UEFI) that allows you to run diagnostic tests to determine whether the computer hardware is functioning properly. The tool runs outside the operating system so that it can isolate hardware failures from issues that are caused by the operating system or other software components.When HP PC Hardware Diagnostics (UEFI) detects a failure that requires hardware replacement, a 24-digit Failure ID code is generated. This ID code can then be provided to support to help determine how to correct the problem.NOTE: To start diagnostics on a convertible computer, your computer must be in notebook mode and you must use the keyboard attached.To start HP PC Hardware Diagnostics (UEFI), follow these steps:1. Turn on or restart the computer, and quickly press esc.2. Press f2.The BIOS searches three places for the diagnostic tools, in the following order:a. Connected USB driveNOTE: To download the HP PC Hardware Diagnostics (UEFI) tool to a USB drive, see Downloading HP PC Hardware Diagnostics (UEFI) to a USB device on page 90.b. Hard drive.c. BIOS3. When the diagnostic tool opens, select the type of diagnostic test you want to run, and then follow the on-screen instructions.NOTE: If you need to stop a diagnostic test, press esc.Downloading HP PC Hardware Diagnostics (UEFI) to a USB deviceNOTE: The HP PC Hardware Diagnostics (UEFI) download instructions are provided in English only, and you must use a Windows computer to download and create the HP UEFI support environment because only .exe files are oered.There are two options to download HP PC Hardware Diagnostics to a USB device.Download the latest UEFI version 1. Go to . The HP PC Diagnostics home page is displayed.2. In the HP PC Hardware Diagnostics section, select the Download link, and then select Run.Download any version of UEFI for a specific product1. Go to . Select Get software and drivers.90 Chapter 9 Using HP PC Hardware Diagnostics (UEFI)Page 1710 Backing up, restoring, and recoveringThis chapter provides information about the following processes. The information in the chapter is standard procedure for most products.●Creating recovery media and backups●Restoring and recovering your systemFor additional information, refer to the HP Support Assistant app.▲Type support in the taskbar search box, and then select the HP Support Assistant app.– or –Select the question mark icon in the taskbar.IMPORTANT: If you will be performing recovery procedures on a tablet, the tablet battery must be at least 70% charged before you start the recovery process.IMPORTANT: For a tablet with a detachable keyboard, connect the tablet to the keyboard base before beginning any recovery process.Creating recovery media and backupsThe following methods of creating recovery media and backups are available on select products only. Choose the available method according to your computer model.●Use HP Recovery Manager to create HP Recovery media after you successfully set up the computer. This step creates a backup of the HP Recovery partition on the computer. The backup can be used to reinstall the original operating system in cases where the hard drive is corrupted or has been replaced. For information on creating recovery media, see Using HP Recovery media (select products only) on page 92. For information on the recovery options that are available using the recovery media, see Using Windows tools on page 93.●Use Windows tools to create system restore points and create backups of personal information. See Using Windows tools on page 93.NOTE: If storage is 32 GB or less, Microsoft System Restore is disabled by default.●On select products, use the HP Cloud Recovery Download Tool to create a bootable USB ash drive for your HP recovery media. For more information, see Using the HP Cloud Recovery Download Tool (select products only) on page 94.Using HP Recovery media (select products only)If possible, check for the presence of the Recovery partition and the Windows partition. Right-click the Start button, select File Explorer, and then select This PC.●If your computer does not list the Windows partition and the Recovery partition, you can obtain recovery media for your system from support. You can nd contact information on the HP website. Go to select your country or region, and follow the on-screen instructions.●If your computer does list the Recovery partition and the Windows partition, you can use HP Recovery Manager to create recovery media after you successfully set up the computer. HP Recovery media can be 92 Chapter 10 Backing up, restoring, and recoveringPage 18Used to perform system recovery if the hard drive becomes corrupted. System recovery reinstalls the original operating system and software programs that were installed at the factory and then configures the settings for the programs. HP Recovery media can also be used to customize the system or restore the factory image if you replace the hard drive.–Only one set of recovery media can be created. Handle these recovery tools carefully, and keep them in a safe place.–HP Recovery Manager examines the computer and determines the required storage capacity for the media that will be required.–To create recovery discs, your computer must have an optical drive with DVD writer capability, and you must use only high-quality blank DVD-R, DVD+R, DVD-R DL, or DVD+R DL discs. Do not use rewritable discs such as CD±RW, DVD±RW, double-layer DVD±RW, or BD-RE (rewritable Blu-ray) discs; they are not compatible with HP Recovery Manager software. Or, instead, you can use a high-quality blank USB ash drive.–If your computer does not include an integrated optical drive with DVD writer capability, but you would like to create DVD recovery media, you can use an external optical drive (purchased separately) to create recovery discs. If you use an external optical drive, it must be connected directly to a USB port on the computer; the drive cannot be connected to a USB port on an external device, such as a USB hub. If you cannot create DVD media yourself, you can obtain recovery discs for your computer from HP. You can nd contact information on the HP website. Go to select your country or region, and follow the on-screen instructions.–Be sure that the computer is connected to AC power before you begin creating the recovery media.–The creation process can take an hour or more. Do not interrupt the creation process.–If necessary, you can exit the program before you have nished creating all of the recovery DVDs. HP Recovery Manager will nish burning the current DVD. The next time you start HP Recovery Manager, you will be prompted to continue.To create HP Recovery media using HP recovery manager:IMPORTANT: For a tablet with a detachable keyboard, connect the tablet to the keyboard base before beginning these steps.1. Type recovery in the taskbar search box, and then select HP Recovery Manager.2. Select Create recovery media, and then follow the on-screen instructions.If you ever need to recover the system, see Recovering using HP Recovery Manager on page 94.Using Windows toolsYou can create recovery media, system restore points, and backups of personal information using Windows tools. NOTE: If storage is 32 GB or less, Microsoft System Restore is disabled by default.For more information and steps, see the Get Help app.▲Select the Start button, and then select the Get Help app.NOTE: You must be connected to the Internet to access the Get Help app.Creating recovery media and backups 93Page 19Using the HP Cloud Recovery Download Tool (select products only)To create HP Recovery media using the HP Cloud Recovery Download Tool.1. Go to . Select Software and Drivers, and then follow the on-screen instructions.Restore and recoveryThere are several options for recovering your system. Choose the method that best matches your situation and level of expertise:IMPORTANT: Not all methods are available on all products.●Windows oers several options for restoring from backup, refreshing the computer, and resetting the computer to its original state. For more information see the Get Help app.▲Select the Start button, and then select the Get Help app.NOTE: You must be connected to the Internet to access the Get Help app.●If you need to correct a problem with a preinstalled application or driver, use the Reinstall drivers and/or applications option (select products only) of HP Recovery Manager to reinstall the individual application or driver.▲Type recovery in the taskbar search box, select HP Recovery Manager, select Reinstall drivers and/or applications, and then follow the on-screen instructions.●If you want to recover the Windows partition to original factory content, you can choose the System Recovery option from the HP Recovery partition (select products only) or use the HP Recovery media. For more information, see Recovering using HP Recovery Manager on page 94. If you have not already created recovery media, see Using HP Recovery media (select products only) on page 92.●On select products, if you want to recover the computer's original factory partition and content, or if you have replaced the hard drive, you can use the Factory Reset option of HP Recovery media. For more information, see Recovering using HP Recovery Manager on page 94.●On select products, if you want to remove the Recovery partition to reclaim hard drive space, HP Recovery Manager oers the Remove Recovery Partition option.For more information, see Removing the HP Recovery partition (select products only) on page 96.Recovering using HP Recovery ManagerHP Recovery Manager software allows you to recover the computer to its original factory state by using the HP Recovery media that you either created or from HP, or by using the HP Recovery partition (select products only). If you have not already created recovery media, see Using HP Recovery media (select products only) on page 92.What you need to know before you get started●HP Recovery Manager recovers only software that was installed at the factory. For software not provided with this computer, you must either download the software from the manufacturer's website or reinstall the software from the media provided by the manufacturer: 94 Chapter 10 Backing up, restoring, and recoveringPage 20IMPORTANT: Recovery through HP Recovery Manager should be used as a nal attempt to correct computer issues.●HP Recovery media must be used if the computer hard drive fails. If you have not already created recovery media, see Using HP Recovery media (select products only) on page 92.●To use the Factory Reset option (select products only), you must use HP Recovery media. If you have not already created recovery media, see Using HP Recovery media (select products only) on page 92.●If your computer does not allow the creation of HP Recovery media or if the HP Recovery media does not work, you can obtain recovery media for your system from support. You can nd contact information from the HP website. Go to select your country or region, and follow the on-screen instructions.●System Recovery—HP Recovery Manager does not automatically provide backups of your personal data. Before beginning recovery, back up any personal data you want to retain.Using HP Recovery media, you can choose from one of the following recovery options:NOTE: Only the options available for your computer display when you start the recovery process.●System Recovery—Reinstalls the original operating system, and then configures the settings for the programs that were installed at the factory.●Factory Reset—Restores the computer to its original factory state by deleting all information from the hard drive and re-creating the partitions. Then it reinstalls the operating system and the software that was installed at the factory.The HP Recovery partition (select products only) allows System Recovery only.Using the HP Recovery partition (select products only)The HP Recovery partition allows you to perform a system recovery without the need for recovery discs or a recovery USB ash drive. This type of recovery can be used only if the hard drive is still working.To start HP Recovery Manager from the HP Recovery partition:IMPORTANT: For a tablet with a detachable keyboard, connect the tablet to the keyboard base before beginning these steps (select products only).1. Type recovery in the taskbar search box, select HP Recovery Manager, and then select Windows Recovery Environment.– or –For computers or tablets with keyboards attached, press f11 while the computer boots, or press and hold f11 as you press the power button.For tablets without keyboards:●Turn on or restart the tablet, and then quickly hold down the volume up button; then select f11.– or –●Turn on or restart the tablet, and then quickly hold down the volume down button; then select f11.2. Select Troubleshoot from the boot options menu.3. Select Recovery Manager, and then follow the on-screen instructions.Restore and recovery 95Page 21Using HP Recovery media to recoverYou can use HP Recovery media to recover the original system. This method can be used if your system does not have an HP Recovery partition or if the hard drive is not working properly.1. If possible, back up all personal files.2. Insert the HP Recovery media, and then restart the computer.NOTE: If the computer does not automatically restart in HP Recovery Manager, change the computer boot order. See Changing the computer boot order on page 96.3. Follow the on-screen instructions.Changing the computer boot orderIf your computer does not restart in HP Recovery Manager, you can change the computer boot order, which is the order of devices listed in BIOS where the computer looks for startup information. You can change the selection to an optical drive or a USB ash drive.To change the boot order:IMPORTANT: For a tablet with a detachable keyboard, connect the tablet to the keyboard base before beginning these steps.1. Insert the HP Recovery media.2. Access the system Startup menu.For computers or tablets with keyboards attached:▲Turn on or restart the computer or tablet, quickly press esc, and then press f9 for boot options.For tablets without keyboards:▲Turn on or restart the tablet, and then quickly hold down the volume up button; then select f9.– or –Turn on or restart the tablet, and then quickly hold down the volume down button; then select f9.3. Select the optical drive or USB ash drive from which you want to boot.4. Follow the on-screen instructions.Removing the HP Recovery partition (select products only)HP Recovery Manager software allows you to remove the HP Recovery partition to free up hard drive space.IMPORTANT: After you remove the HP Recovery partition, you will not be able to perform System Recovery or create HP Recovery media from the HP Recovery partition. So before you remove the Recovery partition, create HP Recovery media: see Using HP Recovery media (select products only) on page 92.NOTE: The Remove Recovery Partition option is only available on products that support this function.Follow these steps to remove the HP Recovery partition:1. Type recovery in the taskbar search box, and then select HP Recovery Manager.2. Select Remove Recovery Partition, and then follow the on-screen instructions.96 Chapter 10 Backing up, restoring, and recoveringPage 2211 SpecificationsComputer specifications Metric U.S. DimensionsLength 234.0 mm 9.22 inWidth 326.0 mm 12.84 inHeight (non-touch) 17.9 mm 0.71 inHeight (touch) 18.05 mm 0.72 inWeight 1.48 kg 3.27 lbsInput powerOperating voltage 19.0 V dc @ 4.74 A – 90 W or 18.5 V dc @ 3.5 A - 65 W or 45 WOperating current 4.74 A or 3.5 ATemperatureOperating (not writing to optical disc) 0°C to 35°C 32°F to 95°FOperating (writing to optical disc) 5°C to 35°C 41°F to 95°FNonoperating -20°C to 60°C -4°F to 140°FRelative humidityOperating 10% to 90%Nonoperating 5% to 95%Maximum altitude (unpressurized)Operating (14.7 to 10.1 psia) -15 m to 3,048 m 50 ft to 10,000 ftNonoperating (14.7 to 4.4 psia) -15 m to 12,192 m -50 ft to 40,000 ftShockOperating 125 g, 2 ms, half-sineNonoperating 200 g, 2 ms, half-sineRandom vibrationOperating 0.75 g zero-to-peak, 10 Hz to 500 Hz, 0.25 oct/min sweep rateNonoperating 1.50 g zero-to-peak, 10 Hz to 500 Hz, 0.5 oct/min sweep rateNOTE: Applicable product safety standards specify thermal limits for plastic surfaces. The computer operates well within this range of temperatures.Computer specifications 97Page 2335.6-cm (14.0-in) display specifications Metric U.S. Active diagonal size 35.6-cm 14.0-inResolution FHD: 1920×1080UHD: 3840×2160Surface treatment Anti-glare (except touch screen)Brightness FHD (45% CG): 220 nitsFHD (72% CG): 400 nits or 700 nitsUHD: 400 nitsViewing angle UVABacklight LEDAspect ratio 16:9Display panel interface eDP98 Chapter 11 SpecificationsPage 24M.2 PCIe solid-state drive specifications 256-GB* 512-GB* 1-TB*DimensionsHeight 1 mm 1 mm 1 mmLength 50.8 mm 50.8 mm 50.8 mmWidth 28.9 mm 28.9 mm 28.9 mmWeight < 10 g < 10 g < 10 gInterface type ATA-7 ATA-7 ATA-7Transfer ratesSequential ReadRandom ReadUp to 2150 MB/sUp to 300,000 IOPSUp to 2150 MB/sUp to 300,000 IOPSUp to 2150 MB/sUp to 300,000 IOPSSequential WriteRandom WriteUp to 1260 MB/sUp to 100,000 IOPSUp to 1550 MB/sUp to 100,000 IOPSReady time, Maximum (to not busy) 1.0 s 1.0 s 1.0 s Access timesLogical 0.1 0.1 0.1Total logical sectors 500,118,192 1,000,215,216 1,500,336,388Operating temperatureOperatingNon-operating0° to 70°C (32°F to 158°F)40° to 80°C (-40°F to 176°F)0° to 70°C (32°F to 158°F)40° to 85°C (-40°F to 185°F)0° to 70°C (32°F to 158°F)40° to 85°C (-40°F to 185°F)1 GB = 1 billion bytes when referring to hard drive storage capacity. Actual accessible capacity is less.NOTE: Certain restrictions and exclusions apply. Contact technical support for details.M.2 PCIe solid-state drive specifications 99Page 2512 Power cord set requirementsThe wide-range input feature of the computer permits it to operate from any line voltage from 100 to 120 volts AC, or from 220 to 240 volts AC.The 3-conductor power cord set included with the computer meets the requirements for use in the country or region where the equipment is purchased.Power cord sets for use in other countries and regions must meet the requirements of the country or region where the computer is used.Requirements for all countriesThe following requirements are applicable to all countries and regions:●The length of the power cord set must be at least 1.0 m (3.3 ft) and no more than 2.0 m (6.5 ft).●All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country or region where the power cord set will be used.●The power cord sets must have a minimum current capacity of 10 amps and a nominal voltage rating of 125 or 250 V AC, as required by the power system of each country or region.●The appliance coupler must meet the mechanical conugration of an EN 60 320/IEC 320 Standard Sheet C13 connector for mating with the appliance inlet on the back of the computer.Requirements for specific countries and regionsCountry/region Accredited agency Applicable note numberAustralia EANSW 1Austria OVE 1Belgium CEBEC 1Canada CSA 2Denmark DEMKO 1Finland FIMKO 1France UTE 1Germany VDE 1Italy IMC 1Japan METI 3The Netherlands KEMA 1Norway NEMKO 1The People's Republic of China CQC 5South Korea EK 4Requirements for all countries 101Page 2613 Statement of memory volatilityThe purpose of this chapter is to provide general information regarding nonvolatile memory in HP Business computers. This chapter also provides general instructions for restoring nonvolatile memory that can contain personal data after the system has been powered o and the hard drive has been removed.HP Business computer products that use Intel®-based or AMD®-based system boards contain volatile DDR memory. The amount of nonvolatile memory present in the system depends upon the system conugration. Intel-based and AMD-based system boards contain nonvolatile memory subcomponents as originally shipped from HP, assuming that no subsequent modifications have been made to the system and assuming that no applications, features, or functionality have been added to or installed on the system.Following system shutdown and removal of all power sources from an HP Business computer system, personal data can remain on volatile system memory (DIMMs) for a nite period of time and will also remain in nonvolatile memory. Use the steps below to remove personal data from the computer, including the nonvolatile memory found in Intel-based and AMD-based system boards. NOTE: If your tablet has a keyboard base, connect to the keyboard base before beginning steps in this chapter.Current BIOS steps1. Follow steps (a) through (f) below to restore the nonvolatile memory that can contain personal data. Restoring or reprogramming nonvolatile memory that does not store personal data is neither necessary nor recommended.a. Turn on or restart the computer, and then press esc while the “Press the ESC key for Startup Menu” message is displayed at the bottom of the screen.NOTE: If the system has a BIOS administrator password, enter the password at the prompt.b. Select Main, select Apply Factory Defaults and Exit, and then select Yes to load defaults.The computer will reboot.c. During the reboot, press esc while the “Press the ESC key for Startup Menu” message is displayed at the bottom of the screen.NOTE: If the system has a BIOS administrator password, enter the password at the prompt.d. Select the Security menu, select Restore Security Settings to Factory Defaults, and then select Yes to restore security level defaults.The computer will reboot.e. During the reboot, press esc while the “Press the ESC key for Startup Menu” message is displayed at the bottom of the screen.NOTE: If the system has a BIOS administrator password, enter the password at the prompt.f. If an asset or ownership tag is set, select the Security menu and scroll down to the Utilities menu. Select System IDs, and then select Asset Tracking Number. Clear the tag, and then make the selection to return to the prior menu.103

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