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Book Descriptions:

compaq proliant ml330 manual

To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Please contact your local sales representative for additional information. Customer will receive a printed license entitlement certificate via physical shipment. For the complete range of StorageWorks RDX drives and media see. NonOperating 30,000 ft 9144m. Series Specs We delete comments that violate our policy, which we encourage you to read. Discussion threads can be closed at any time at our discretion. Refer to your operating system documentation and to the SmartStart release notes. Primary hard drive controller installation is incorrect. Run the setup utility for your server and correct this problem. For the ProLiant ML330 server, press F10 to run the BIOS Setup utility. For the ProLiant ML330e server, press F9 to run the ROM Based Setup Utility RBSU Refer to Chapter 5 for complete instructions on the use of the setup utilities. Hard drive controller order is incorrect. Encountered problem after new hardware was added to the system. Refer to the documentation provided with the hardware. Remove the new hardware. Problem was encountered with hardware added to a new system or dered with a factoryinstalled operating system where available. You must complete the factoryinstalled operating system software installation BEFORE adding new hardware to the system. Be sure that you are following the instructions provided in the FactoryInstalled Operating System Software Installation Guide. Remove the new hardware and complete the software installation. The HP ProLiant ML330 G6 is a new dual processor tower platform which built on the latest Intel Xeon processors with QPI technology to create a unique system architecture. This unique architecture enables you to scale your business as needed and allows you to improve the efficiency of how you spend your IT dollars.<http://aksaxena.com/bpms/includes/fckeditor/uploads/userfiles/04-quest-repair-manual.xml>

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ML330 G6 not only delivers excellent performance with the latest technology but it also incorporates the industrys most powerful embedded management technology with the HP Integrated LightsOut 2 iLO 2 for ProLiant controller, allowing you to manage servers anytime and anywhere. Please try a different number. Please consult the documentation for your specific system. You can not mix registered memory with unbuffered memory. 04.09.09 tathor HP Memory Configuration Tool can be found at If you have questions or would like further support, please contact our support department.No problem! The Crucial X8 and X6 offer incredible SSD performance through a convenient USB interface. No problem! The Crucial X8 and X6 offer incredible SSD performance through a convenient USB interface. Sign up today to receive your welcome offer. HP assumes you are qualified in the servicing of computer equipment and trained in recognizing hazards in products with hazardous energy levels. Part Number 534305 003 March 2011 Edition 3 Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. Microsoft, Windows, and Windows Server are U.S. registered trademarks of Microsoft Corporation. If power is off, view the LEDs on the RJ 45 connector.<http://www.fdlightech.com/luodan/images/userfiles/04-r6-service-manual-download.xml>

Item Description 1 Hard drive backplane connectors 2 2 Internal USB connector 3 Redundant power supply connector 4 Front panel connector 5 Reserved 6 SATA connectors 1 4 hard drive 7

Hard drive LED connector 8 System maintenance switch 9 SATA connectors 5 6 optical drive 10 Slot 3 PC Ie1 x8 1 11 SD card slot 12 Slot 4 PC Ie2 x16 16, 8, 4, 2, 1 13 Slot 5 PC Ie2 x8 4, 2, 1 14 Slot 6 PC Ie2 x8 4, 2, 1 15 Fan 6 connector 16 Dedicated iLO 2 module connector optional 17 Hard drive backplane connector 18 NMI jumper 19 Processor board connectors 20 TPM connector 21 Processor 1 DIMMs 1 9 22 USB connector Many crashes freeze a system, and the only available action for administrators is to cycle the system power. Resetting the system erases any information that could support problem analysis, but the NMI feature preserves that information by performing a memory dump before a hard reset. The front panel health LEDs indicate only the current hardware status. In some situations, HP SIM may report server status differently than the health LEDs because the software tracks more system attributes. Amber Processor is in a pre failure condition. DIMM failure, all slots in one channel amber Red No valid or usable memory is installed in the system. Overtemperature amber Amber The Health Driver has detected a cautionary temperature level. Red The server has detected a hardware critical temperature level. Fan module amber Red The minimum fan requirements are not being met in one or more of the fan modules. One or more fans have failed or are missing. DIMM slots DIMM slots are numbered sequentially 1 through 9 for each processor. The supported AMP modes use the letter assignments for population guidelines. DIMM identification IMPORTANT This server does not support mixing RDIMMs and UDIMMs. Attempting to mix these two types causes the server to halt during BIOS initialization.

To determine DIMM characteristics, use the label attached to the DIMM and the following illustration and table. Portions of the power supply and some internal circuitry remain active until AC power is removed. IMPORTANT If installing a hot plug device, it is not necessary to power down the server. 1. Back up the server data. 2. Shut down the operating system as directed by the operating system documentation. When the server activates Standby power mode, the system power LED changes to amber. IMPORTANT Pressing the UID button illuminates the blue UID LEDs on the front and rear panels. In a rack environment, this feature facilitates locating a server when moving between the front and rear of the rack. 4. Disconnect the power cords. The system is now without power. Open or remove the tower bezel This server has a removable bezel that must be unlocked and opened before accessing the front panel components. The bezel should remain closed during normal server operations. CAUTION To avoid injury, HP recommends that only authorized technicians keep the bezel key. CAUTION To avoid breaking the bezel, remove the bezel before placing the server on its side. To remove the component 1. Power down the server on page 20 . Extend the server from the rack NOTE If the optional cable management arm option is installed, you can extend the server without powering down the server or disconnecting peripheral cables and power cords. These steps are only necessary with the standard cable management solution. 1. Power down the server on page 20 . 2. Disconnect all peripheral cables and power cords from the server rear panel. 3. Extend the tray. WARNING To reduce the risk of personal injury or equipment damage, be sure that the rack is adequately stabilized before extending a component from the rack. WARNING To reduce the risk of personal injury, be careful when pressing the server rail release latches and sliding the server into the rack.

The sliding rails could pinch your fingers. 4. After performing the installation or maintenance procedure, slide the server back into the rack a. Press the server rail release latches and slide the server fully into rack. b. Secure the server by tightening the thumbscrews. 5. Reconnect the peripheral cables and power cords. CAUTION For proper cooling, do not operate the server without the access panel, baffles, expansion slot covers, hard drives, or blanks installed. Install the access panel 1. Place the access panel on top of the server, allowing it to extend past the rear of the server approximately 1.5 cm (0.5 in). 2. Slide the access panel forward until it clicks into place, and close the access panel latch. If necessary, configure the air baffle on page 22 . Configure the air baffle This procedure is necessary for 2P models only. 1. Power down the server on page 20 . 2. Do one of

the following Proper airflow can only be maintained when the bays are populated. Unpopulated drive bays can lead to improper cooling and thermal damage. 3. Remove the media bay blank. Install the processor board 1. Power down the server on page 20 . 2. Do one of the following Save the screws. 7. Using the wrench provided in the kit, install the seven mezzanine base stand offs. 8. Install the metal plate on the mezzanine base stand offs. A number of service level options are available to meet your needs. HP Care Pack Services offer upgraded service levels to expand your standard product warranty with easy to buy, easy to use support packages that help you make the most of your server investments. Rack planning resources The rack resource kit ships with all HP branded or Compaq branded 9000, 10000, and H9 series racks. For more information on the content of each resource, refer to the rack resource kit documentation.

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If you intend to deploy and configure multiple servers in a single rack, refer to the white paper on high density deployment at the HP website . Optimum environment When installing the server in a rack, select a location that meets the environmental standards described in this section. Therefore, the front and rear rack doors must be adequately ventilated to allow ambient room air to enter the cabinet, and the rear door must be adequately ventilated to allow the warm air to escape from the cabinet. CAUTION To prevent improper cooling and damage to the equipment, do not block the ventilation openings. When vertical space in the rack is not filled by a server or rack component, the gaps between the components cause changes in airflow through the rack and across the servers. Cover all gaps with blanking panels to maintain proper airflow. CAUTION Always use blanking panels to fill empty vertical spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage. The 9000 and 10000 Series Racks provide proper server cooling from flow through perforations in the front and rear doors that provide 64 percent open area for ventilation. Power requirements Installation of this equipment must comply with local and regional electrical regulations governing the installation of information technology equipment by licensed electricians. This equipment is designed to operate in installations covered by NFP A 70, 1999 Edition National Electric Code and NFPA 75, 1992 WARNING To reduce the risk of personal injury, fire, or damage to the equipment, do not overload the AC supply branch circuit that provides power to the rack. Consult the electrical authority having jurisdiction over wiring and installation requirements of your facility.

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CAUTION Protect the server from power fluctuations and temporary interruptions with a regulating uninterruptible power supply UPS. This device protects the hardware from damage caused by power surges and voltage spikes and keeps the system in operation during a power failure. When installing more than one server, you may need to use additional power distribution devices to safely provide power to all devices. Electrical grounding requirements The server must be grounded properly for proper operation and safety. In the United States, you must install the equipment in accordance with NFPA 70, 1999 Edition National Electric Code, Article 250, as well as any local and regional building codes. In Canada, you must install the equipment in accordance with Canadian Standards Association, CSA C22.1, Canadian Electrical Code. In all other countries, you must install the equipment in accordance with any regional or national electrical wiring codes, such as the International Electrotechnical Commission IEC Code 364, parts 1 through 7. Furthermore, you must be sure that all power distribution devices used in the installation, such as branch wiring and receptacles, are listed or certified grounding type devices. Because of the high ground leakage currents associated with multiple servers connected to the same power source, HP recommends the use of a PDU that is either permanently wired to the building's branch circuit or includes a nondetachable cord that is wired to an industrial style plug. NEMA locking style plugs or those complying with IEC 60309 are considered suitable for this purpose. Using common

power outlet strips for the server is not recommended. A rack may become unstable if more than one component is extended for any reason. Identifying the server shipping carton contents
Unpack the server shipping carton and locate the materials and documentation necessary for installing the server.

All the rack mounting hardware necessary for installing the server into the rack is included with the rack or the server. For options installation information, refer to the option documentation.

WARNING To reduce the risk of electric shock, fire, or damage to the equipment, do not plug telephone or telecommunications connectors into RJ 45 connectors. 2. Connect the power cord to the rear of the server. 3. Connect the power cord to the AC power source. Installing a server in a rack The procedure to install the tray in the rack is similar to the procedures to install a server in a rack. For more information, see the 2U Quick Deploy Rail System Installation Instructions that shipped in the rail kit. **CAUTION** To avoid damage to the equipment, be sure that the rack rails are installed in a predetermined location on the rack so that airflow clearance issues are resolved. For airflow clearance information, refer to the documentation that ships with the server. **CAUTION** To prevent damage to equipment, do not place the monitor on a rack mounted server. The rack enabling kit supports only the server. 5. Slide the tray fully into the rack, and then tighten the thumbscrews. Installing the operating system To operate properly, the server must have a supported operating system. For the latest information on supported operating systems, refer to the HP website portals. This process may require you to obtain additional drivers from the HP website. Follow the on screen instructions to begin the installation process. For information on using these installation paths, refer to the SmartStart installation poster in the HP ProLiant Essentials Foundation Pack, included with the server. Registering the server To register the server, refer to the HP Registration website. **WARNING** To reduce the risk of personal injury from hot surfaces, allow the drives and the internal system components to cool before touching them.

CAUTION To prevent damage to electrical components, properly ground the server before beginning any installation procedure. Improper grounding can cause electrostatic discharge. Processor option The server supports single and dual processor operation. With two processors installed, the server supports boot functions through the processor installed in processor socket 1. However, if processor 1 fails, the system automatically boots from processor 2 and provides a processor failure message. **WARNING** To reduce the risk of personal injury from hot surfaces, allow the drives and the internal system components to cool before touching them. **CAUTION** To prevent possible server malfunction and damage to the equipment, multiprocessor configurations must contain processors with the same part number. **CAUTION** To prevent possible server overheating, always populate processor socket 2 with a processor and a heatsink or a processor socket cover and a heatsink blank. **CAUTION** The heatsink thermal interface media is not reusable and must be replaced if the heatsink is removed from the processor after it has been installed. **CAUTION** To prevent possible server malfunction and damage to the equipment, multiprocessor configurations must contain the same type of processors. **IMPORTANT** When installing the heatsink, align the guide pins on the processor retention bracket with the alignment holes in the heatsink. **IMPORTANT** Processor socket 1 must always be populated. If processor socket 1 is empty, the server does not power up. To install the component 1. Update the system ROM. Locate and download the latest ROM version from the HP website. Follow the instructions on the website to update the system ROM. **CAUTION** Failure to completely open the processor locking lever prevents the processor from seating during installation, leading to hardware damage. Open the processor locking lever and the processor socket retaining bracket.

Do not remove the processor socket cover. **IMPORTANT** Be sure the processor remains inside the processor installation tool. 13. If the processor has separated from the installation tool, carefully reinsert the processor in the tool. Handle the processor by the edges only, and do not touch the bottom

of the processor, especially the contact area. Align the processor installation tool with the socket, and then install the processor. Press the tabs on the processor installation tool to separate it from the processor, and then remove the tool. 16. Close the processor socket retaining bracket and the processor locking lever. The processor socket cover is automatically ejected. Remove the cover. CAUTION Be sure to close the processor socket retaining bracket before closing the processor locking lever. The lever should close without resistance. Forcing the lever closed can damage the processor and socket, requiring system board replacement. Remove the heatsink protective cover. 18. Install the heatsink. Power up the server on page 20 . Memory options IMPORTANT This server does not support mixing RDIMMs and UDIMMs. Attempting to mix these two types causes the server to halt during BIOS initialization. The memory subsystem in this server can support RDIMMs or UDIMMs. Both types are referred to as DIMMs when the information applies to both types. When specified as RDIMM or UDIMM, the information applies to that type only. All memory installed in the server must be the same type. Each processor supports three channels, and each channel supports three DIMM slots, as shown in the following table. Channel Slot Slot number 1 G D A 1 2 3 2 H E B 4 5 6 3 I F C 7 8 9 This multi channel architecture provides enhanced performance in Advanced ECC mode. This architecture also enables the Mirrored Memory and Lockstep memory modes. This server supports both Registered PC3 DIMMs RDIMMs and Unbuffered DIMMs UDIMMs.

DIMM slots in this server are identified by number and by letter. Letters identify the slots to populate for specific AMP modes. Slot numbers are reported by ROM messages during boot and for error reporting. Single, dual, and quad rank DIMMs To understand and configure memory protection modes properly, an understanding of single, dual, and quad rank DIMMs is helpful. Some DIMM configuration requirements are based on these classifications. A single rank DIMM has one set of memory chips that is accessed while writing to or reading from the memory. A dual rank DIMM is similar to having two single rank DIMMs on the same module, with only one rank accessible at a time. A quad rank DIMM is, effectively, two dual rank DIMMs on the same module. Only The server memory control subsystem selects the proper rank within the DIMM when writing to or reading from the DIMM. Dual and quad rank DIMMs provide the greatest capacity with the existing memory technology. For example, if current DRAM technology supports 2 GB single rank DIMMs, a dual rank DIMM would be 4 GB, and a quad rank DIMM would be 8 GB. The server can continue to function if a single or multi bit memory failure within a single DRAM device occurs. Advanced Memory Protection options are configured in RBSU. RDIMM maximum memory configurations The following table lists the maximum memory configuration possible with 8 GB RDIMMs. Rank Processor Single rank 72 GB Dual rank 72 GB Quad rank 48 GB UDIMM maximum memory configurations The server supports a maximum of 24 GB using 4 GB dual rank UDIMMs. Low voltage DIMMs Low Voltage DDR3 DIMMs operate at a lower voltage 1.35V than standard voltage DDR3 DIMMs 1.5V, and therefore consume less power. To have DIMMs operate at 1.35V, configure the Maximum Memory Bus Frequency option in the ROM Based Setup Utility to 1066 MHz.

Advanced ECC memory configuration Advanced ECC memory is the default memory protection mode for this server. Standard ECC can correct single bit memory errors and detect multi bit memory errors. When multi bit errors are detected using Standard ECC, the error is signaled to the server and causes the server to halt. Advanced ECC protects the server against some multi bit memory errors. Advanced ECC can correct both single bit memory errors and 4 bit memory errors if all failed bits are on the same DRAM device on the DIMM. Advanced ECC provides additional protection over Standard ECC because it is possible to correct certain memory errors that would otherwise be uncorrected and result in a server failure. The server provides notification that correctable error events have exceeded a predefined threshold rate. Mirrored memory configuration Mirroring provides protection against uncorrected memory errors that would

otherwise result in server downtime. Mirroring is performed at the channel level. Channels 1 and 2 are used; channel 3 is not populated. Data is written to both memory channels. Data is read from one of the two memory channels. If an uncorrectable error is detected in the active memory channel, data is retrieved from the mirror channel. This channel becomes the new active channel, and the system disables the channel with the failed DIMM. Online Spare memory configuration Online spare memory provides protection against degraded DIMMs by reducing the likelihood of uncorrected memory errors. This protection is available without any operating system support. Online spare memory protection dedicates one rank of each memory channel for use as spare memory. The remaining ranks are available for OS and application use.

If correctable memory errors occur at a rate higher than a specific threshold on any of the non spare ranks, the server automatically copies the memory contents of the degraded rank to the online spare rank. The server then deactivates the failing rank and automatically switches over to the online spare rank. Lockstep memory configuration Lockstep mode provides protection against multi bit memory errors that occur on the same DRAM device. Lockstep mode can correct any single DRAM device failure on x4 and x8 DIMM types. The DIMMs in each channel must have identical HP part numbers. Lockstep mode uses channel 1 and channel 2. Channel 3 is not populated. Because channel 3 cannot be populated when using Lockstep mode, the maximum memory capacity is lower than Advanced ECC mode. Memory performance with Advanced ECC is also slightly higher. General DIMM slot population guidelines Observe the following guidelines for all AMP modes Do not populate DIMM slots G through I. Do not populate DIMM slots G through I. Redundant hot plug power supply option The server supports a second hot plug power supply to provide redundant power to the system if the primary power supply fails. Pay particular attention to the plug, electrical outlet, and the point where the cord extends from the equipment. **WARNING** To reduce the risk of personal injury from hot surfaces, allow the power supply or power supply blank to cool before touching it. **CAUTION** Always install either a hot plug power supply or a power supply blank into each bay to maintain proper airflow and cooling in the server. Improper airflow can lead to thermal damage. Power supply configuration **CAUTION** All power supplies installed in the server must have the same output power capacity to operate in redundant mode. Verify that all power supplies have the same part number and label color.

When the system detects mismatched power supplies, the system displays POST messages, does not power on the new power supply, and remains in non redundant mode. Label color Output Orange 750 W Installing the redundant hot plug power supply option **WARNING** To reduce the risk of personal injury or damage to the equipment, the installation of power supplies should be performed only by individuals who are qualified in servicing server equipment and trained to deal with products capable of producing hazardous energy levels. **WARNING** To reduce the risk of personal injury from hot surfaces, observe the thermal labels on each power supply or module. **WARNING** To reduce the risk of injury from electric shock hazards, do not open power supplies. Refer all maintenance, upgrades, and servicing to qualified personnel. **CAUTION** Electrostatic discharge ESD can damage electronic components. Be sure that you are properly grounded earthed before beginning any installation procedure. To install the component 1. Identify the redundant power supply bay. **IMPORTANT** Power supplies for the model shown are hot pluggable. When using the redundant power supply option, it is not necessary to power down the server before removing or installing a power supply. Redundant fan assembly option To install the component 1. Power down the server on page 20 . Install the air baffle. 12. Install the access panel on page 22 . 13. Do one of the following Close or install the tower bezel, as needed. SAS or SATA hard drive option **CAUTION** For proper cooling, do not operate the server without the access panel, baffles, expansion slot covers, hard drives, or blanks installed. To install the component 1. Remove the hard drive blank. **CAUTION** To prevent improper cooling and thermal damage, do not operate the server unless all bays are populated with either a component or a blank. 6.

Using four of the surplus T 15 screws located on the non hot plug hard drive expansion cage, install the non hot plug hard drives. 7. Connect the power and data cables to the non hot plug hard drive. 8. Install the non hot plug hard drive expansion cage. HP has provided extra guide screws, located behind the side access panel. Depending on the option, use 5.25 M3 metric screws or HD 6 32 shipping screws. The metric screws supplied by HP are black. S ATA optical drive option For clarity, the following illustrations include option cabling only. CAUTION To prevent improper cooling and thermal damage, do not operate the server unless all bays are populated with either a component or a blank. U SB tape drive option For clarity, the following illustrations include option cabling only. CAUTION To prevent improper cooling and thermal damage, do not operate the server unless all bays are populated with either a component or a blank. Full height tape drive option For clarity, the following illustrations include option cabling only. Expansion board options The server supports PCI Express and PCI X expansion boards. CAUTION To prevent improper cooling and thermal damage, do not operate the server unless all PCI slots have either an expansion slot cover or an expansion board installed. Connect the power extender cables, provided in the option kit, to the power cables in the server. Do one of the following: Close or install the tower bezel, as needed. Storage controller option IMPORTANT For additional installation and configuration information, refer to the documentation that ships with the option. Battery backed write cache battery pack option CAUTION To prevent a server malfunction or damage to the equipment, do not add or remove the battery pack while an array capacity expansion, RAID level migration, or stripe size migration is in progress.