Linux Hardware Matrix for HP Workstations

General Notes that apply to all Platforms

Purpose of the Linux Hardware Matrix

The HP Workstations Linux Hardware Matrix provides per-platform advisory information about the functionality of HP workstation desktops, and the hardware components applicable to them, under several Linux distributions such as Red Hat Enterprise Linux (RHEL) and SUSE Linux Enterprise Desktop (SLED).

The Linux Hardware Matrix does not represent the issue support that you can expect from the Linux OS distributor. Please see the section below entitled "Important Information about OS Support".

About Linux OS Release Streams

As technology advances, newer releases of Linux distributions are more likely to have sufficient support for new hardware (processors and chipset architectures, storage controllers, etc.) than are older releases in the same streams.

The Linux Hardware Matrix shows information for releases that provide reasonably complete functionality for the platform and components, using drivers that are part of the distribution, unless noted to the contrary. The releases shown are typically the most current at the time that the platform was launched, but in some cases an already-existing release may provide good functionality.

It is advisable to apply the distributor's most recent maintenance updates in order to get defect and security fixes (and in some cases, additional hardware enablement).

Important Information about OS Support

Distributors of enterprise-class Linux releases have certification processes that verify that a particular platform is functional and supportable. Most distributors will not support issues that arise on non-certified platforms. Therefore, it is important that you consult the vendor's certification web site to verify certification for the OS release you are planning to use. Here are the sites for Red Hat and for SUSE:
SUSE: http://www.novell.com/yessearch/Search.jsp
Red Hat: http://hardware.redhat.com

How to Use this Document

Please remember that the general notes on this page apply to all platforms in this Linux Hardware Matrix. If you print out platform pages, be sure to print this one also.

The platform-specific pages in this matrix are formatted as follows:
* The platform is identified at the top of the page. For some platforms, the original releases on which the platform was certifed by Linux distributors are noted. However, the Linux vendor certification site is always the authoritative source.
* Built-in (onboard) and optional components are listed in the left-hand column. This set of components initially represents what was listed as available at the time the platform was launched. The list may be updated periodically as new options are added. However, it is not an authoritative list of product options. Please see the platform specification (QuickSpecs), available at www.hp.com, for the most up-to-date list.
* One or more OS distribution columns are shown to the right of the components column. The headers of these columns identify the OSes for which functionality has been evaluated by HP. In some cases, these columns have been updated since the platform was launched. Component functionality is expected to be retained later in the same OS release stream. For example, a component might be usable in RHEL 6.1 "or later", implying RHEL 6.2, 6.3, ... (See the note above entitled "About Linux OS Release Streams".)
* A solid circle in a cell represents usable functionality with the combination of OS and component, using drivers that are part of the distribution.
* A blank cell represents absence of functionality with default drivers. This does not mean that the component is necessarily useless--you may have to download and possibly build a driver from another source, such as the component manufacturer's web site or an open source community site.
* A number represents a reference to a footnote. Footnotes are located at the bottom of the page.

HP Z1 All-in-one Workstation		
This page is not complete without the General Notes (first page of the matrix).		
Product Items/Features (Blank box or unlisted -> component is NOT functional w/ as-is OS)	**RH EL WS 6.2 or later (x86 & x86_64)**	**SLED11 SP2 or later (x86_64)**
HP Workstation Base System		
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•
Localization Kit (See footnote 1)		
HP Localization Kit	•	•
Software		
Remote Graphics Software		
All Supported Processors		
All Supported Processors (single-CPU configs)	•	•
Hyperthreading	•	•
Graphics Card (Video Card) (See footnote 2)		
Intel Onboard Graphics	8	8
NVIDIA Quadro Q500M	10	10
NVIDIA Quadro Q1000M	10	10
NVIDIA Quadro Q3000M	10	10
NVIDIA Quadro Q4000M	10	10
NVIDIA Quadro K3000M	11	11
NVIDIA Quadro K4000M	11	11
System RAM		
Minimum (GB)	2GB	2GB
Maximum (GB)	32GB	32GB
Hard Disks		
All Supported SSD Disk Drives	•	•
All Supported SATA Disk Drives	•	•
All Supported USB Drive Keys	•	•
Network Cards (no modem support)		
Wireless LAN (Intel Centrino 6230)	•	•
Onboard Components		
Onboard LAN - Intel 82579 Gigabit Ethernet	•	•
Integrated 6 in 1 Card Reader	•	•
Onboard Audio (IDT 92HD91 codec)	9	9
Onboard SATA RAID	4	4
Add Ons		
Removable CD/DVD Media		
HP 8x DVD-ROM Drive	•	•
HP BD-RE (Blu-Ray writer)	•	•
Input/Output Devices (no spaceball support)		
HP Optical Scroll Mouse, USB	•	•
HP Standard Keyboard, USB	•	•
HP Wireless AIO Keyboard/Mouse	•	•
TPM Module/ Smart Card		
HP Printers	6	6
All Supported Monitors	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English)

footnote 2 - Get the latest drivers: "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z1; select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z1 all-in-one can support up to two 2.5-inch SATA drives or one 3.5-inch SATA drive.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "intel" driver may not support the Z1 built-in display correctly.

footnote 9 - Depending on the OS release, the kernel ALSA driver may enable all audio functions; some earlier kernels enable headphones but not speakers.

footnote 10 - For NVIDIA Quadro graphics on Linux, HP requires NVIDIA driver versions 295.20 or later for proper Z1 built-in display support.

footnote 11 - For K3000M and K4000M graphics on Linux, NVIDIA driver version 304.51 or later is required.

Linux Hardware Matrix for HP Workstations

HP Z220 SFF Workstation
Originally certified with RHEL 6.3 (x86_64) and SLED 11 SP2 (x86_64). Certified with RHEL 5.8 (x86_64) in October 2012.

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Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL DT 5.8 or later (x86_64)	RH EL WS 6.3 or later (x86_64)	SLED11 SP2 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (single-CPU configs)	•	•	•
Hyperthreading	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
Intel Onboard Graphics	Vesa Driver Only	8	8
NVIDIA NVS 300	•	•	•
NVIDIA NVS 310	•	•	•
NVIDIA NVS 510	•	•	•
NVIDIA Quadro Q600	•	•	•
ATI v2270	•	•	•
ATI v3900	•	•	•
System RAM			
Minimum (GB)	2GB	2GB	2GB
Maximum (GB)	32GB	32GB	32GB
Hard Disks			
SATA Controllers	5	5	5
All Supported SAS Disk Drives			
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	•	•	•
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Intel GbE CT NIC	•	•	•
Broadcom NetXtreme PCIe	•	•	•
Onboard Components			
Onboard LAN - Intel 82579 Gigabit Ethernet	2	•	•
Onboard Audio	•	•	•
Onboard SATA RAID	4	4	4
Add Ons			
IEEE 1394A and 1394B PCI-E Cards		•	•
USB 3.0 PCI-E Card		•	•
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	3	3	3
HP BD-RE (writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP Mouse, PS/2 or USB	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English)

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z220; select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z220 SFF can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "intel" driver may not support the Intel graphics correctly.

Linux Hardware Matrix for HP Workstations

HP Z220 CMT Workstation
Originally certified with RHEL 6.3 (x86_64) and SLED 11 SP2 (x86_64). Certified with RHEL 5.8 (x86_64) in October 2012.

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL DT 5.8 or later (x86_64)	RH EL WS 6.3 or later (x86_64)	SLED11 SP2 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (single-CPU configs)	•	•	•
Hyperthreading	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
Intel Onboard Graphics	Vesa Driver Only	8	8
NVIDIA NVS 300	•	•	•
NVIDIA NVS 310	•	•	•
NVIDIA NVS 510	•	•	•
NVIDIA Quadro Q600	•	•	•
NVIDIA Quadro Q2000	•	•	•
NVIDIA Quadro Q4000	•	•	•
ATI v2270	•	•	•
ATI v3900	•	•	•
ATI v4900	•	•	•
ATI v5900	•	•	•
ATI v7900	•	•	•
System RAM			
Minimum (GB)	2GB	2GB	2GB
Maximum (GB)	32GB	32GB	32GB
Hard Disks			
SATA Controllers	5	5	5
All Supported SAS Disk Drives			
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	•	•	•
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Intel GbE CT NIC	•	•	•
Broadcom NetXtreme PCIe	•	•	•
Onboard Components			
Onboard LAN - Intel 82579 Gigabit Ethernet	2	•	•
Onboard Audio	•	•	•
Onboard SATA RAID	4	4	4
Add Ons			
IEEE 1394A and 1394B PCI-E Cards		•	•
USB 3.0 PCI-E Card		•	•
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	3	3	3
HP BD-RE (writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP Mouse, PS/2 or USB	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English)

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z220; select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z220 CMT can support up to 3 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "intel" driver may not support the Intel graphics correctly.

Linux Hardware Matrix for HP Workstations

HP Z420 Workstation

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Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL DT 5.8 or later (x86_64)	RH EL WS 6.2 or later (x86_64)	SLED11 SP2 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors	•	•	•
Hyperthreading	•	•	•
Firmware features			
CSM (Compatibility Support Module) Mode	•	•	•
2.1 UEFI Mode		•	•
Intel AMT remote manageability			
Graphics Card (Video Card)			
No Graphics Card	•	•	•
NVIDIA NVS 300	•	•	•
NVIDIA NVS 310	•	•	•
NVIDIA Quadro NVS 450	•	•	•
NVIDIA NVS 510	•	•	•
NVIDIA Quadro 600	•	•	•
NVIDIA Quadro 2000	•	•	•
NVIDIA Quadro 4000	•	•	•
NVIDIA Quadro 5000	•	•	•
NVIDIA Quadro K5000	•	•	•
NVIDIA Quadro 6000	•	•	•
NVIDIA Tesla C2075	•	•	•
ATI v2270 PCIe	•	•	•
ATI v3900 PCIe	•	•	•
ATI v4900 PCIe	•	•	•
ATI v5900 PCIe	•	•	•
ATI v7900 PCIe	•	•	•
System RAM			
Minimum (GB)	2GB	2GB	2GB
Maximum (GB)	64GB	64GB	64GB
Hard Disks			
All Supported SAS Disk Drives	5	5	5
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	5	5	5
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Broadcom 5761 PCIe	•	•	•
Intel Pro 1000 CT Gigabit PCI	•	•	•
HP NC360T and 361T PCIe Dual Port Gigabit NIC	2	2	2
HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver)		•	•
Onboard Components			
Onboard LAN - Intel 52579LM Gigabit	•	•	•
Onboard SATA RAID	5	5	5
Onboard SAS RAID	5	5	5
Add Ons			
IEEE 1394B PCI-E Card		•	•
LSI 9212-4i	5	5	5
LSI 9260-8i	2	2	2
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	4	4	4
HP BD-RE (Blu-Ray writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z420 (substitute correct platform name); select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later, Red Hat EL WS 6 or later, and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 9212-4i (RAID 0, 1, 10 SATA & SAS), LSI 9260-8i (RAID 0, 1, 5, 10 SATA & SAS). SATA RAID is now supported on AHCI ports(0,1,5,10) and SCU ports(0,1,5,10).

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

Linux Hardware Matrix for HP Workstations

HP Z620 Workstation

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Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL DT 5.8 or later (x86_64)	RH EL WS 6.2 or later (x86_64)	SLED11 SP2 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 & 2 CPU configs)	•	•	•
Hyperthreading	•	•	•
Firmware features			
CSM (Compatibility Support Module) Mode	•	•	•
2.1 UEFI Mode		•	•
Intel AMT remote manageability			
Graphics Card (Video Card)			
No Graphics Card	•	•	•
NVIDIA NVS 300	•	•	•
NVIDIA NVS 310	•	•	•
NVIDIA Quadro NVS 450	•	•	•
NVIDIA NVS 510	•	•	•
NVIDIA Quadro 600	•	•	•
NVIDIA Quadro 2000	•	•	•
NVIDIA Quadro 4000	•	•	•
NVIDIA Quadro 5000	•	•	•
NVIDIA Quadro K5000	•	•	•
NVIDIA Quadro 6000	•	•	•
NVIDIA Tesla C2075	•	•	•
ATI v2270 PCIe	•	•	•
ATI v3900 PCIe	•	•	•
ATI v4900 PCIe	•	•	•
ATI v5900 PCIe	•	•	•
ATI v7900 PCIe	•	•	•
System RAM			
Minimum (GB)	2GB	2GB	2GB
Maximum (GB)	96GB	96GB	96GB
Hard Disks			
All Supported SAS Disk Drives	5	5	5
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	5	5	5
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Broadcom 5761 PCIe	•	•	•
Intel Pro 1000 CT Gigabit PCI	•	•	•
HP NC360T and 361T PCIe Dual Port Gigabit NIC	2	2	2
HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver)		•	•
Onboard Components			
Onboard LAN - Intel 52574L Gigabit	•	•	•
Onboard LAN - Intel 52579LM Gigabit	•	•	•
Onboard Audio	•	•	•
Onboard SATA RAID	5	5	5
TPM Module/ Smart Card			
USB 3.0 support		•	•
Add Ons			
IEEE 1394B PCI-E Card		•	•
LSI 9212-4i	5	5	5
LSI 9260-8i	2	2	2
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW Drive	4	4	4
HP Slot Load DVD +/-RW Drive	4	4	4
HP BD-RE (Blu-Ray writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z620; select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 9212-4i (RAID 0, 1, 10 SATA & SAS), LSI 9260-8i (RAID 0, 1, 5 SATA & SAS). SATA RAID is now supported on AHCI ports(0,1,5,10) and SCU ports(0,1,5,10)

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

Linux Hardware Matrix for HP Workstations			
HP Z820 Workstation			
This page is not complete without the General Notes (first page of the matrix).			

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL DT 5.8 or later (x86_64)	RH EL WS 6.2 or later (x86_64)	SLED11 SP2 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 & 2 CPU configs)	•	•	•
Hyperthreading	•	•	•
Firmware features			
CSM (Compatibility Support Module) Mode	•	•	•
2.1 UEFI Mode		•	•
Intel AMT remote manageability			
Graphics Card (Video Card)			
No Graphics Card	•	•	•
NVIDIA NVS 300	•	•	•
NVIDIA NVS 310	•	•	•
NVIDIA Quadro NVS 450	2	2	2
NVIDIA NVS 510	•	•	•
NVIDIA Quadro 600	•	•	•
NVIDIA Quadro 2000	•	•	•
NVIDIA Quadro 4000	•	•	•
NVIDIA Quadro 5000	•	•	•
NVIDIA Quadro K5000	•	•	•
NVIDIA Quadro 6000	•	•	•
NVIDIA Tesla C2075	•	•	•
AMD v2270 PCIe	•	•	•
AMD v3900 PCIe	•	•	•
AMD v4900 PCIe	•	•	•
AMD v5900 PCIe	•	•	•
AMD v7900 PCIe	•	•	•
System RAM			
Minimum (GB)	2GB	2GB	2GB
Maximum (GB)	512GB	512GB	512GB
Hard Disks			
All Supported SAS Disk Drives	•	•	•
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	•	•	•
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Broadcom 5761 PCIe	•	•	•
Intel Pro 1000 CT Gigabit PCI	•	•	•
HP NC360T and 361T PCIe Dual Port Gigabit NIC	2	2	2
HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver)		•	•
Onboard Components			
Onboard LAN - Intel 52574L Gigabit	•	•	•
Onboard LAN - Intel 52579LM Gigabit	•	•	•
Onboard Audio	•	•	•
Onboard SATA AHCI RAID	5	5	5
Onboard SCU RAID	5	5	5
Onboard SAS RAID	5	5	5
TPM Module/ Smart Card			
USB 3.0 support		•	•
Add Ons			
IEEE 1394B PCI-E Card		•	•
LSI 9260-8i	5	5	5
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	4	4	4
HP Slot Load DVD +/-RW Drive	•	•	•
HP BD-RE (Blu-Ray writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z820 (substitute correct platform name); select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later, Red Hat EL WS 6 or later, and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 9212-4i (RAID 0, 1, 10 SATA & SAS), LSI 9260-8i (RAID 0, 1, 5 SATA & SAS), and on-board LSI 2308 (RAID 0, 1, 10 SATA & SAS). SATA RAID is now supported on AHCI ports (0,1) and SCU ports(0,1,5,10)

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

HP Z200 SFF Workstation

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted -> component is NOT functional w/ as-is OS)	RH EL DT 5.5 or later (x86 & x86_64)	RH EL WS 6.0 or later (x86 & x86_64)	SLED11 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 CPU configs)	•	•	•
Hyperthreading	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
Intel Onboard Graphics	Vesa Driver Only	Intel Driver Only	Intel Driver Only
NVIDIA Quadro NVS 295	•	•	•
NVIDIA Quadro NVS 300	•	•	•
NVIDIA Quadro FX380 LP (Low Profile)	•	•	•
NVIDIA Quadro Q600	•	•	•
ATI v3800 PCIe - Single Card Supported	•	•	•
System RAM			
Minimum (GB)	1GB	1GB	1GB
Maximum (GB)	16GB	16GB	16GB
Hard Disks			
All Supported SAS Disk Drives			
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	•	•	•
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Intel Pro 1000 CT Gigabit PCI	•	•	•
Broadcom 5761 PCIe	•	•	•
Onboard Components			
Onboard LAN - Intel 82578DM Gigabit Ethernet	•	•	•
Onboard Audio	•	•	•
Onboard SATA RAID	4	4	4
Add Ons			
IEEE 1394A PCI Card		•	•
IEEE 1394A PCI-E Card		•	•
IEEE 1394B PCI-E Card		•	•
SATA Controllers	5	5	5
Creative Sound Blaster X-Fi	•	•	•
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	3	3	3
HP BD-RE (writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z200 (substitute correct platform name); Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z200 SFF can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

Linux Hardware Matrix for HP Workstations

HP Z200 CMT Workstation

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted -> component is NOT functional w/ as-is OS)	RH EL DT 5.4 or later (x86 & x86_64)	RH EL WS 6.0 or later (x86 & x86_64)	SLED11 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 CPU configs)	•	•	•
Hyperthreading	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
Intel Onboard Graphics	Vesa Driver Only	Intel Driver Only	Intel Driver Only
NVIDIA Quadro NVS 295	•	•	•
NVIDIA Quadro NVS 300	•	•	•
NVIDIA Quadro FX380	•	•	•
NVIDIA Quadro FX580	•	•	•
NVIDIA Quadro Q600	•	•	•
NVIDIA Quadro FX1800	•	•	•
NVIDIA Quadro Q2000	•	•	•
NVIDIA Quadro FX3800			
ATI v3700 PCIe - Single Card Supported	•	•	•
ATI v5700 PCIe - Single Card Supported	•	•	•
ATI v7750 PCIe - Single Card Supported			
ATI v3800 PCIe - Single Card Supported	•	•	•
ATI v4800 PCIe - Single Card Supported	•	•	•
ATI v5800 PCIe - Single Card Supported	•	•	•
System RAM			
Minimum (GB)	1GB	1GB	1GB
Maximum (GB)	16GB	16GB	16GB
Hard Disks			
All Supported SAS Disk Drives			
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	•	•	•
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Intel Pro 1000 CT Gigabit PCI	•	•	•
Broadcom 5761 PCIe	•	•	•
Onboard Components			
Onboard LAN - Intel 82578DM Gigabit Ethernet	•	•	•
Onboard Audio	•	•	•
Onboard SATA RAID	4	4	4
Add Ons			
IEEE 1394A PCI Card		•	•
IEEE 1394A PCI-E Card		•	•
IEEE 1394B PCI-E Card		•	•
SATA Controllers	5	5	5
Creative Sound Blaster X-Fi	•	•	•
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	3	3	3
HP BD-RE (writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z200 (substitute correct platform name); Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z200 can support up to 3 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

Linux Hardware Matrix for HP Workstations			
HP Z210 SFF Workstation			
This page is not complete without the General Notes (first page of the matrix).			

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL DT 5.6 or later (x86 & x86_64)	RH EL WS 6.0 or later (x86 & x86_64)	SLED11 SP1 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 CPU configs)	•	•	•
Hyperthreading	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
Intel Onboard Graphics	Vesa Driver Only	Intel Driver Only	Intel Driver Only
NVIDIA Quadro NVS 295	•	•	•
NVIDIA Quadro NVS 300	•	•	•
NVIDIA Quadro Q400	•	•	•
NVIDIA Quadro Q600	•	•	•
ATI v2270 PCIe - Single Card Supported	•	•	•
ATI v3800 PCIe - Single Card Supported	•	•	•
System RAM			
Minimum (GB)	1GB	1GB	1GB
Maximum (GB)	16GB	16GB	16GB
Hard Disks			
All Supported SAS Disk Drives			
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	•	•	•
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Intel Pro 1000 CT Gigabit PCI	•	•	•
Broadcom 5761 PCIe	•	•	•
Onboard Components			
Onboard LAN - Intel 82579LM Gigabit Ethernet	2	2	2
Onboard Audio	•	•	•
Onboard SATA RAID	4	4	4
Add Ons			
IEEE 1394A PCI Card		•	•
IEEE 1394A PCI-E Card		•	•
IEEE 1394B PCI-E Card		•	•
USB 3.0 PCI-E Card		•	•
SATA Controllers	5	5	5
Creative Sound Blaster X-Fi	•	•	•
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	3	3	3
HP BD-RE (writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English)

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z210 (substitute correct platform name); Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z210 SFF can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

Linux Hardware Matrix for HP Workstations			
HP Z210 CMT Workstation			
This page is not complete without the General Notes (first page of the matrix).			
Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	**RH EL DT 5.6 or later** **(x86 & x86_64)**	**RH EL WS 6.0 or later** **(x86 & x86_64)**	**SLED11 SP1 or later** **(x86_64)**
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 CPU configs)	•	•	•
Hyperthreading	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
Intel Onboard Graphics	Vesa Driver Only	Intel Driver Only	Intel Driver Only
NVIDIA Quadro NVS 295	•	•	•
NVIDIA Quadro NVS 300	•	•	•
NVIDIA Quadro Q400	•	•	•
NVIDIA Quadro Q600	•	•	•
NVIDIA Quadro Q2000	•	•	•
ATI v2270 PCIe - Single Card Supported	•	•	•
ATI v3800 PCIe - Single Card Supported	•	•	•
ATI v4800 PCIe - Single Card Supported	•	•	•
ATI v4900 PCIe - Single Card Supported	•	•	•
ATI v5800 PCIe - Single Card Supported	•	•	•
ATI v5900 PCIe - Single Card Supported	•	•	•
ATI v7900 PCIe - Single Card Supported	•	•	•
System RAM			
Minimum (GB)	1GB	1GB	1GB
Maximum (GB)	16GB	16GB	16GB
Hard Disks			
All Supported SAS Disk Drives			
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	•	•	•
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Intel Pro 1000 CT Gigabit PCI	•	•	•
Broadcom 5761 PCIe	•	•	•
Onboard Components			
Onboard LAN - Intel 82579LM Gigabit Ethernet	2	2	2
Onboard Audio	•	•	•
Onboard SATA RAID	4	4	4
Add Ons			
IEEE 1394A PCI Card		•	•
IEEE 1394A PCI-E Card		•	•
IEEE 1394B PCI-E Card		•	•
USB 3.0 PCI-E Card		•	•
SATA Controllers	5	5	5
Creative Sound Blaster X-Fi	•	•	•
Removable CD/DVD Media			
HP 16x DVD-ROM Drive	•	•	•
HP 16x Super Multi DVD+RW	3	3	3
HP BD-RE (writer)			
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
22 in 1 Card Reader	•	•	•
HP Printers	6	6	6
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English)

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z210 (substitute correct platform name); Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z210 CMT can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

Linux Hardware Matrix for HP Workstations

HP Z400 Workstation

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 4.8 or later (x86 & EM64T)	RH EL DT 5.3 or later (x86 & x86_64)	RH EL WS 6.0 or later (x86 & x86_64)	SLED11 or later (x86_64)
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Kit	•	•	•	•
Software				
Remote Graphics Software				
All Supported Processors				
All Supported Processors (1 CPU configs)	•	•	•	•
Hyperthreading	•	•	•	•
Graphics Card (Video Card) (See footnote 2)				
No Graphics Card	•	•	•	•
NVIDIA Quadro NVS 295	•	•	•	•
NVIDIA Quadro NVS 300	•	•	•	•
NVIDIA Quadro NVS 450	•	•	•	•
NVIDIA Quadro FX380	•	•	•	•
NVIDIA Quadro 400	•	•	•	•
NVIDIA Quadro FX580	•	•	•	•
NVIDIA Quadro 600	•	•	•	•
NVIDIA Quadro FX1800	•	•	•	•
NVIDIA Quadro 2000	•	•	•	•
NVIDIA Quadro FX3800	•	•	•	•
NVIDIA Quadro 4000	•	•	•	•
NVIDIA Quadro FX4800	•	•	•	•
NVIDIA Quadro 5000	•	•	•	•
NVIDIA Tesla C2075		•	•	•
ATI v2270 PCIe - Single Card Supported	•	•	•	•
ATI v3700 PCIe - Single Card Supported	•	•	•	•
ATI v5700 PCIe - Single Card Supported	•	•	•	•
ATI v7750 PCIe - Single Card Supported	•	•	•	•
ATI v3800 PCIe - Single Card Supported	•	•	•	•
ATI v3900 PCIe - Single Card Supported	•	•	•	•
ATI v4800 PCIe - Single Card Supported	•	•	•	•
ATI v4900 PCIe - Single Card Supported	•	•	•	•
ATI v5800 PCIe - Single Card Supported	•	•	•	•
ATI v5900 PCIe - Single Card Supported		•	•	•
ATI v7900 PCIe - Single Card Supported		•	•	•
System RAM				
Minimum (GB)	1GB	1GB	1GB	1GB
Maximum (GB)	24GB	24GB	24GB	24GB
Hard Disks				
All Supported SAS Disk Drives	4	4	4	4
All Supported SSD Disk Drives	•	•	•	•
All Supported SATA Disk Drives	4,5	4,5	4,5	4,5
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5761 PCIe	•	•	•	•
Intel Pro 1000 CT Gigabit PCI	•	•	•	•
Intel NC360T PCIe Dual Port Gigabit NIC	•	•	•	•
Onboard Components				
Onboard LAN - Broadcom 5764 10/100/1000	•	•	•	•
Onboard Audio	•	•	•	•
Onboard SATA RAID	4	4	4	4
Add Ons				
LSI 3041E SAS Card	4	4	4	4
LSI 8888 ELP	4	4	4	4
LSI 9212-4i	4	4	4	4
LSI 9260-8i	4	4	4	4
IEEE 1394A PCI Card			•	•
IEEE 1394A PCI-E Card			•	•
IEEE 1394B PCI-E Card			•	•
USB 3.0 PCI-E Card			•	•
Creative Sound Blaster X-Fi			•	•
Removable CD/DVD Media				
HP 16x DVD-ROM Drive	•	•	•	•
HP 16x Super Multi DVD+RW	3	3	3	3
HP BD-RE (writer)	•	•	•	•
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	•	•	•	•
HP Scroll Mouse, PS/2	•	•	•	•
HP Optical Scroll Mouse, USB	•	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•	•
TPM Module/ Smart Card				
22 in 1 Card Reader		•	•	•
HP Printers	6	6	6	6
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.7", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterpise Desktop 11" ISO images from http://www.hp.com/support/z400 (substitute correct platform name); Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is supported using the LSI 3041E (RAID 0,1 SAS only), LSI 8888 ELP (RAID 0, 1, 5 SAS only), LSI 9212 (RAID 0,1 SAS only) and the LSI 9260-8i (RAID 0, 1, 5 SAS only). SATA RAID is not supported.

footnote 5 - The Z400 can support up to 4 SATA drives. To support the third and fourth SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on platforms when the processor allows it. There are one or two low-end processors which do not support turbo mode or hyperthreading.

Linux Hardware Matrix for HP Workstations

HP Z600 Workstation

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 4.8 or later (x86 & EM64T)	RH EL DT 5.3 or later (x86 & x86_64)	RH EL WS 6.0 or later (x86 & x86_64)	SLED11 or later (x86_64)
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Kit	•	•	•	•
Software				
Remote Graphics Software	•	•	•	•
All Supported Processors				
All Supported Processors (1 & 2 CPU configs)	•	•	•	•
Hyperthreading	•	•	•	•
Graphics Card (Video Card) (See footnote 2)				
No Graphics Card	•	•	•	•
NVIDIA Quadro NVS 295	•	•	•	•
NVIDIA Quadro NVS 300	•	•	•	•
NVIDIA Quadro NVS 450	•	•	•	•
NVIDIA Quadro FX380	•	•	•	•
NVIDIA Quadro 400	•	•	•	•
NVIDIA Quadro FX580	•	•	•	•
NVIDIA Quadro 600	•	•	•	•
NVIDIA Quadro FX1800	•	•	•	•
NVIDIA Quadro 2000	•	•	•	•
NVIDIA Quadro FX3800	•	•	•	•
NVIDIA Quadro 4000	•	•	•	•
NVIDIA Quadro FX4800	•	•	•	•
NVIDIA Quadro 5000	•	•	•	•
NVIDIA Quadro 6000	•	•	•	•
ATI v2270 PCIe - Single Card Supported	•	•	•	•
ATI v3700 PCIe - Single Card Supported	•	•	•	•
ATI v5700 PCIe - Single Card Supported	•	•	•	•
ATI v7750 PCIe - Single Card Supported	•	•	•	•
ATI v3800 PCIe - Single Card Supported	•	•	•	•
ATI v3900 PCIe - Single Card Supported	•	•	•	•
ATI v4800 PCIe - Single Card Supported	•	•	•	•
ATI v4900 PCIe - Single Card Supported	•	•	•	•
ATI v5800 PCIe - Single Card Supported		•	•	•
ATI v5900 PCIe - Single Card Supported		•	•	•
ATI v7900 PCIe - Single Card Supported		•	•	•
System RAM				
Minimum (GB)	1GB	1GB	1GB	1GB
Maximum (GB)	48GB	48GB	48GB	48GB
Hard Disks				
All Supported SAS Disk Drives	5	5	5	5
All Supported SSD Disk Drives	•	•	•	•
All Supported SATA Disk Drives	5	5	5	5
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5761 PCIe	•	•	•	•
Intel Pro 1000 CT Gigabit PCI	•	•	•	•
Intel NC360T PCIe Dual Port Gigabit NIC	•	•	•	•
Onboard Components				
Onboard LAN - Broadcom 5764 10/100/1000	•	•	•	•
Onboard Audio	•	•	•	•
Onboard SATA RAID	5	5	5	5
Add Ons				
LSI 3041E SAS Card	5	5	5	5
LSI 8888 ELP	5	5	5	5
LSI 9212-4i	5	5	5	5
LSI 9260-8i	5	5	5	5
IEEE 1394A PCI Card			•	•
IEEE 1394A PCI-E Card			•	•
IEEE 1394B PCI-E Card			•	•
USB 3.0 PCI-E Card			•	•
Creative Sound Blaster X-Fi		•	•	•
Removable CD/DVD Media				
HP 16x DVD-ROM Drive	•	•	•	•
HP 16x Super Multi DVD+RW	4	4	4	4
HP BD-RE (writer)	•	•	•	•
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	•	•	•	•
HP Scroll Mouse, PS/2	•	•	•	•
HP Optical Scroll Mouse, USB	•	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•	•
TPM Module/ Smart Card				
22 in 1 Card Reader		•	•	•
HP Printers	6	6	6	6
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.7", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterpise Desktop 11" ISO images from http://www.hp.com/support/z600 (substitute correct platform name); Select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 3041E (RAID 0,1 SAS only), LSI 8888 ELP (RAID 0, 1, 5 SAS only), LSI 9212 (RAID 0,1 SAS only), and the LSI 9260-8i (RAID 0, 1, 5 SAS only). SATA RAID is not supported.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on platforms when the processor allows it. There are one or two low-end processors which do not support turbo mode or hyperthreading.

Linux Hardware Matrix for HP Workstations

HP Z800 Workstation

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 4.8 or later (x86 & EM64T)	RH EL DT 5.3 or later (x86 & x86_64)	RH EL WS 6.0 or later (x86 & x86_64)	SLED11 or later (x86_64)
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Kit	•	•	•	•
Software				
Remote Graphics Software				
All Supported Processors				
All Supported Processors (1 & 2 CPU configs)	•	•	•	•
Hyperthreading	•	•	•	•
Graphics Card (Video Card) (See footnote 2)				
No Graphics Card	•	•	•	•
NVIDIA Quadro NVS 295	•	•	•	•
NVIDIA Quadro NVS 300	•	•	•	•
NVIDIA Quadro NVS 450	•	•	•	•
NVIDIA Quadro FX380	•	•	•	•
NVIDIA Quadro 400	•	•	•	•
NVIDIA Quadro FX580	•	•	•	•
NVIDIA Quadro 600	•	•	•	•
NVIDIA Quadro FX1800	•	•	•	•
NVIDIA Quadro 2000	•	•	•	•
NVIDIA Quadro FX3800	•	•	•	•
NVIDIA Quadro 4000	•	•	•	•
NVIDIA Quadro FX4800	•	•	•	•
NVIDIA Quadro 5000	•	•	•	•
NVIDIA Quadro FX5800	•	•	•	•
NVIDIA Quadro 6000	•	•	•	•
Tesla C1060	•	•	•	•
Tesla 3GB C2050	•	•	•	•
NVIDIA Tesla C2075		•	•	•
ATI v2270 PCIe - Single Card Supported	•	•	•	•
ATI v3700 PCIe - Single Card Supported	•	•	•	•
ATI v5700 PCIe - Single Card Supported	•	•	•	•
ATI v7750 PCIe - Single Card Supported	•	•	•	•
ATI v3800 PCIe - Single Card Supported	•	•	•	•
ATI v3900 PCIe - Single Card Supported	•	•	•	•
ATI v4800 PCIe - Single Card Supported	•	•	•	•
ATI v4900 PCIe - Single Card Supported	•	•	•	•
ATI v5800 PCIe - Single Card Supported	•	•	•	•
ATI v5900 PCIe - Single Card Supported		•	•	•
ATI v7900 PCIe - Single Card Supported		•	•	•
ATI v8800 PCIe - Single Card Supported	•	•	•	•
System RAM				
Minimum (GB)	1GB	1GB	1GB	1GB
Maximum (GB)	192GB	192GB	192GB	192GB
Hard Disks				
All Supported SAS Disk Drives	5	5	5	5
All Supported SSD Disk Drives	•	•	•	•
All Supported SATA Disk Drives	5	5	5	5
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5764 PCIe	•	•	•	•
Intel Pro 1000 CT Gigabit PCI	•	•	•	•
Intel NC360T PCIe Dual Port Gigabit NIC	•	•	•	•
Intel Pro 1000 GT Gigabit PCI	•	•	•	•
Onboard Components				
Onboard LAN - Broadcom 5764 10/100/1000	•	•	•	•
Onboard Audio	•	•	•	•
Onboard SATA RAID	5	5	5	5
Onboard SAS RAID	5	5	5	5
Add Ons				
IEEE 1394A PCI Card			•	•
IEEE 1394A PCI-E Card			•	•
IEEE 1394B PCI-E Card			•	•
USB 3.0 PCI-E Card			•	•
Creative Sound Blaster X-Fi		•	•	•
LSI 8888 ELP	5	5	5	5
LSI 9260-8i	5	5	5	5
Removable CD/DVD Media				
HP 16x DVD-ROM Drive	•	•	•	•
HP 16x Super Multi DVD+RW	4	4	4	4
HP BD-RE (writer)	•	•	•	•
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	•	•	•	•
HP Scroll Mouse, PS/2	•	•	•	•
HP Optical Scroll Mouse, USB	•	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•	•
TPM Module/ Smart Card				
22 in 1 Card Reader		•	•	•
HP Printers	6	6	6	6
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.7", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterpise Desktop 11" ISO images from http://www.hp.com/support/z800 (substitute correct platform name); select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 8888 ELP (RAID 0,1, 5 SAS only), LSI 8888 ELP (RAID 0, 1, 5 SAS only), LSI 9260-8i (RAID 0, 1, 5 SAS only), and the Onboard SAS RAID (RAID 0,1,). SATA RAID is not supported.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on platforms when the processor allows it. There are one or two low-end processors which do not support turbo mode or hyperthreading.

Linux Hardware Matrix for HP Workstations							

HP xw4100 Workstation
Originally certified with RHEL 3 Update 1

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	EL WS 3 U1 or later	EL WS 3 pre-install	Red Hat 9	Red Hat 8	Red Hat 7.3	Red Hat 7.3 pre-install	Red Hat 7.2
HP Workstation Base System (no IEEE-1394 support)							
Base system includes: Chassis, System Board, USB, Cables, etc.	•	•	•	•	•	8	•
Localization Kit (See footnote 5)							
HP Localization Kit	•	•	•	•	•	2,8	•
Operating Systems (See footnote 1)							
HP Installer CD for Red Hat Linux (May 2004)			3	3	3		3
HP Driver CD for Red Hat Enterprise Linux WS 3 (May 2004)	3						
32-bit Red Hat Enterprise Linux WS 3 Pre-installed (Update 1 - May '04)		•					
Intel Pentium4/Xeon Processors							
All Supported Processors (1 & 2 CPU configs)	•	•	•	•	•	8	•
Hyperthreading	•	•	•				
Graphics Card (Video Card) (See footnote 3)							
No Graphics Card	•	•	•	•	•	8	•
NVIDIA Entry 2D Graphics 32MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro4 200 NVS 64MB AGP	9	9	9	9	9	9,	8
NVIDIA Quadro NVS 280 64MB AGP	•	•	•	•	•	2,8	•
NVIDIA Quadro NVS 280 64MB PCI	6	6	6	6	6	6,	8
NVIDIA Quadro NVS 400 128MB PCI							
NVIDIA Quadro4 380 XGL 64MB AGP	•	•	•	•	•	2,8	
ATI Fire GL T2-128 128MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro4 980 XGL 128MB AGP	•	•	•	•	•	2,8	
ATI Fire GL Z1 3D 128MB AGP							
ATI Fire GL X1 3D 256MB AGP							
NVIDIA Quadro FX2000 128MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro FX3000 256MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro FX1100 128MB AGP	•	•	•	•	•	2,8	
System RAM							
Minimum (MB)	512	512	256	256	128	128	128
Maximum	4GB	4GB	4GB	4GB	4GB	4GB	3GB
Hard Disks (Preinstalled systems may only be ordered with one disk type: either SATA, SCSI, or IDE, not mixed.)							
All Supported EIDE ATA Disk Drives	•	•	•	•	•	8	•
All Supported non-RAID SCSI Controllers	•	•	•	•	•	8	•
All Supported SCSI Disk Drives	•	•	•	•	•	8	•
All Supported SATA Disk Drives	•	•					
HP Drive Key 128, 256MB	•	•				8	
Network Cards (no modem support)							
Integrated LAN - (Broadcom 57x2,or Intel Pro)	•	•	•	•	•	8	•
Broadcom 5782 Card	•	•	•	•	•	2,8	
Intel Pro 1000 MT	•	•	•	•	•	2,8	
Removable CD/DVD Media							
HP 48x CD-ROM Drive	•	•	•	•	•	8	•
HP 16x DVD-ROM Drive	•	•	•	•	•	8	•
HP 48x CD-RW Drive	•	•	•	•	•	8	
HP 48x DVD/CDRW Combo	•	•	•	•	•	8	
HP 8x DVD+RW 400i Kit	4	4	4	4	4	4,	8
Input/Output Devices (no spaceball support)							
HP 3-Button Mouse, PS/2	•	•	•	•	•	8	•
HP Scroll Mouse, PS/2	•	•	•	•	•	8	•
HP Optical Scroll Mouse, USB	•	•	•	•	•	8	•
All Supported Monitors	•	•	•	•	•	8	•

footnote 1 - OS references in this matrix are part of the "HP Installer Kit for Linux" unless labeled as preinstall.   The HP Installer and Driver CDs from the "HP Installer Kit for Linux" work in conjuction with Red Hat CDs (purchase separately) to add customizations for HP hardware. Check for updated ISO images- See footnote 3.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit and do mandatory download of web driver. See footnote 3.

footnote 3 - Get the latest drivers and "HP Installer CD for Red Hat Linux <7.2, 7.3, 8.0, 9>" and "HP Driver CD for Red Hat Enterprise Linux 3" ISO images from http://www.hp.com/support/<xw4100, xw6000, xw8000>; Select "download drivers and software"; Select OS; Select file. See www.hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs support for DVD+RW is available only on 32-bit Red Hat EL WS 3. Nero DVD+RW software is supported on RedHat 7.3, 8.0, 9, and EL WS 3. Drive kit is AMO only. See footnote 2.

footnote 5 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABF Japan-English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AK6 Europe A4).

footnote 6 - 280 NVS PCI card may be used alone or with the 280 NVS AGP card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 7 - The OS CDs for 'Red Hat Enterprise Linux WS 3' are included with preinstalled systems. For systems ordered with the HP Installer Kit for Linux, purchase the OS separately as an AMO kit. The May 2004 'HP Driver CD for Red Hat Enterprise Linux WS 3' contains drivers which are compatible with both the Update1 and Update2 32-bit OS AMO kits. Order box set AMO kits from http://www.hp.com/workstations/ia32/options/software.html

footnote 8 - Red Hat 7.3 pre-install was discontinued at the end of Feb. 2004. This column is a reference for users upgrading system components.

footnote 9 - This component was supported, but is no longer orderable with new systems.

Linux Hardware Matrix for HP Workstations				
HP Z800 Workstation				
This page is not complete without the General Notes (first page of the matrix).				
Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	**RH EL WS 4.8 or later** **(x86 & EM64T)**	**RH EL DT 5.3 or later** **(x86 & x86_64)**	**RH EL WS 6.0 or later** **(x86 & x86_64)**	**SLED11 or later** **(x86_64)**
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Kit	•	•	•	•
Software				
Remote Graphics Software				
All Supported Processors				
All Supported Processors (1 & 2 CPU configs)	•	•	•	•
Hyperthreading	•	•	•	•
Graphics Card (Video Card) (See footnote 2)				
No Graphics Card	•	•	•	•
NVIDIA Quadro NVS 295	•	•	•	•
NVIDIA Quadro NVS 300	•	•	•	•
NVIDIA Quadro NVS 450	•	•	•	•
NVIDIA Quadro FX380	•	•	•	•
NVIDIA Quadro 400	•	•	•	•
NVIDIA Quadro FX580	•	•	•	•
NVIDIA Quadro 600	•	•	•	•
NVIDIA Quadro FX1800	•	•	•	•
NVIDIA Quadro 2000	•	•	•	•
NVIDIA Quadro FX3800	•	•	•	•
NVIDIA Quadro 4000	•	•	•	•
NVIDIA Quadro FX4800	•	•	•	•
NVIDIA Quadro 5000	•	•	•	•
NVIDIA Quadro FX5800	•	•	•	•
NVIDIA Quadro 6000	•	•	•	•
Tesla C1060	•	•	•	•
Tesla 3GB C2050	•	•	•	•
NVIDIA Tesla C2075		•	•	•
ATI v2270 PCIe - Single Card Supported	•	•	•	•
ATI v3700 PCIe - Single Card Supported	•	•	•	•
ATI v5700 PCIe - Single Card Supported	•	•	•	•
ATI v7750 PCIe - Single Card Supported	•	•	•	•
ATI v3800 PCIe - Single Card Supported	•	•	•	•
ATI v3900 PCIe - Single Card Supported	•	•	•	•
ATI v4800 PCIe - Single Card Supported	•	•	•	•
ATI v4900 PCIe - Single Card Supported	•	•	•	•
ATI v5800 PCIe - Single Card Supported	•	•	•	•
ATI v5900 PCIe - Single Card Supported		•	•	•
ATI v7900 PCIe - Single Card Supported		•	•	•
ATI v8800 PCIe - Single Card Supported	•	•	•	•
System RAM				
Minimum (GB)	1GB	1GB	1GB	1GB
Maximum (GB)	192GB	192GB	192GB	192GB
Hard Disks				
All Supported SAS Disk Drives	5	5	5	5
All Supported SSD Disk Drives	•	•	•	•
All Supported SATA Disk Drives	5	5	5	5
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5764 PCIe	•	•	•	•
Intel Pro 1000 CT Gigabit PCI	•	•	•	•
Intel NC360T PCIe Dual Port Gigabit NIC	•	•	•	•
Intel Pro 1000 GT Gigabit PCI	•	•	•	•
Onboard Components				
Onboard LAN - Broadcom 5764 10/100/1000	•	•	•	•
Onboard Audio	•	•	•	•
Onboard SATA RAID	5	5	5	5
Onboard SAS RAID	5	5	5	5
Add Ons				
IEEE 1394A PCI Card			•	•
IEEE 1394A PCI-E Card			•	•
IEEE 1394B PCI-E Card			•	•
USB 3.0 PCI-E Card			•	•
Creative Sound Blaster X-Fi		•	•	•
LSI 8888 ELP	5	5	5	5
LSI 9260-8i	5	5	5	5
Removable CD/DVD Media				
HP 16x DVD-ROM Drive	•	•	•	•
HP 16x Super Multi DVD+RW	4	4	4	4
HP BD-RE (writer)	•	•	•	•
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	•	•	•	•
HP Scroll Mouse, PS/2	•	•	•	•
HP Optical Scroll Mouse, USB	•	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•	•
TPM Module/ Smart Card				
22 in 1 Card Reader		•	•	•
HP Printers	6	6	6	6
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.7", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterpise Desktop 11" ISO images from http://www.hp.com/support/z800 (substitute correct platform name); select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 8888 ELP (RAID 0,1, 5 SAS only), LSI 8888 ELP (RAID 0, 1, 5 SAS only), LSI 9260-8i (RAID 0, 1, 5 SAS only), and the Onboard SAS RAID (RAID 0,1,). SATA RAID is not supported.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on platforms when the processor allows it. There are one or two low-end processors which do not support turbo mode or hyperthreading.

Linux Hardware Matrix for HP Workstations					
HP xw8200 Workstation Originally certified with RHEL 3 Update 2 (x86 & x86_64), and RHEL4 Initial (x86 & x86_64)					
This page is not complete without the General Notes (first page of the matrix).					
Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	**RH EL WS 3 U7 or later (x86)**	**RH EL WS 3 U7 or later (EM64T)**	**RH EL WS 4 U3 or later (x86 & EM64T)**	**Red Hat 7.2**	**Red Hat 7.3**
HP Workstation Base System					
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•	•
Localization Kit (See footnote 3)					
HP Localization Kit	•	•	•	•	•
Software					
Remote Graphics Software	•	•			
All Supported Processors					
All Supported Processors (1 & 2 CPU configs)	•	•	•	•	•
Hyperthreading	•	•	•		
Graphics Card (Video Card) (See footnote 1)					
No Graphics Card	•	•	•	•	•
NVIDIA Quadro FX330 64MB PCIe	•	•	•	•	•
NVIDIA Quadro FX1300 128MB PCIe	•	•	•	•	•
NVIDIA Quadro FX3400 256MB PCIe	•	•	•	•	•
NVIDIA Quadro FX3450 256MB PCIe					
NVIDIA Quadro FX4500 256MB PCIe					
G-Card (to be used with the FX4500)					
NVIDIA Quadro NVS 280 64MB PCI (See footnote 4)	•	•	•	•	•
NVIDIA Quadro NVS 280 64MB PCIe	•	•	•	•	•
NVIDIA Quadro FX540	•	•	•	•	•
NVIDIA Quadro FX1400	•	•	•	•	•
NVIDIA Quadro NVS400					
NVIDIA Quadro NVS440 PCIe					
SLI Graphics Connector					
ATI v3100 PCIe	•	•	•		
ATI v5100 PCIe	8	8	8		
System RAM					
Minimum (MB)	512	512	512	128	128
Maximum	4GB	4GB	4GB	4GB	4GB
Hard Disks					
All Supported SCSI Disk Drives	5	5	5	5	5
All Supported SATA Disk Drives	5,7	5,7	5,7		
All Supported USB Drive Keys	•	•	•		
Network Cards (no modem support)					
Broadcom 5782 NetXtreme Gigabit PCI	•	•	•	•	•
Broadcom 5751 PCIe	•	•	•	•	•
Intel Pro 1000 MT Gigabit PCI	•	•	•	•	•
Onboard Components					
Onboard LAN - Broadcom 5751 10/100/1000	•	•	•	•	•
Onboard Audio	•	•	•	•	•
Onboard SATA RAID	6	6	6	6	6
Add Ons					
IEEE 1394 PCI Card					
All non-RAID U320 SCSI Controllers	•	•	•	•	•
SATA Controllers					
Creative Sound Blaster Audigy 2 ZS					
Hardware RAID	6	6	6	6	6
Removable CD/DVD Media					
HP 48x CD-ROM Drive	•	•	•	•	•
HP 16x DVD-ROM Drive	•	•	•	•	•
HP 48x CD/RW Drive	•	•	•	•	•
HP 48x DVD/CDRW Combo	•	•	•	•	•
HP 16x dual-layer DVD+RW	2	2	2		2
Input/Output Devices (no spaceball support)					
HP 3-Button Mouse, PS/2	9	9	9	•	•
HP Scroll Mouse, PS/2	9	9	9	•	•
HP Optical Scroll Mouse, USB	9	9	9		
HP Standard Keyboard, USB	9	9	9		
Modular Keyboard/ TPM Module/ Smart Card					
All Supported Monitors	•	•	•		•

footnote 1 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw4200 (substitute correct platform name); Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 2 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 3 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 4 - 280 NVS PCI card may be used alone or with another card. The SLI connector used to connect the graphic cards together will not be supported until RedHat delivers RHEL3 U6. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID.

footnote 7 -The xw4200 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Please refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on how to install the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

Linux Hardware Matrix for HP Workstations

HP xw4300 Workstation
Originally certified with RHEL 3 Update 5 (x86 & x86_64), and RHEL4 Update 1 (x86 & x86_64)

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U7 or later (x86)	RH EL WS 3 U7 or later (EM64T)	RH EL WS 4 U3 or later (x86 & EM64T)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software	•	•	•
All Supported Processors			
All Supported Processors (1 & 2 CPU configs)	•	•	•
Hyperthreading	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
NVIDIA Quadro FX3400 256MB PCIe	•	•	•
NVIDIA Quadro FX3450 256MB PCIe	•	•	•
NVIDIA Quadro FX4500 256MB PCIe	•	•	•
G-Card (to be used with the FX4500)			
NVIDIA Quadro NVS 280 64MB PCI (See footnote 3)	•	•	•
NVIDIA Quadro NVS 280 64MB PCIe	•	•	•
NVIDIA Quadro NVS 285 64MB PCIe	•	•	•
NVIDIA Quadro FX540	•	•	•
NVIDIA Quadro FX1400	•	•	•
NVIDIA Quadro NVS400			
NVIDIA Quadro NVS440 PCIe			
SLI Graphics Connector			
ATI v3100 PCIe	•	•	•
ATI v5100 PCIe	8	8	8
System RAM			
Minimum (MB)	512	512	512
Maximum	8GB	8GB	8GB
Hard Disks			
All Supported SCSI Disk Drives	5	5	5
All Supported SATA Disk Drives	5,7	5,7	5,7
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Broadcom 5782 NetXtreme Gigabit PCI	•	•	•
Broadcom 5751 PCIe	•	•	•
Intel Pro 1000 MT Gigabit PCI	•	•	•
Intel Pro 1000 GT Gigabit PCI	11	11	11
Onboard Components			
Onboard LAN - Broadcom 5751 10/100/1000	2	2	2
Onboard Audio	10	10	10
Onboard SATA RAID	6	6	6
Add Ons			
IEEE 1394 PCI Card			
All non-RAID U320 SCSI Controllers	•	•	•
SATA Controllers			
Creative Sound Blaster Audigy 2 ZS			
Hardware RAID	6	6	6
Removable CD/DVD Media			
HP 48x CD-ROM Drive	•	•	•
HP 16x DVD-ROM Drive	•	•	•
HP 48x CD/RW Drive	•	•	•
HP 48x DVD/CDRW Combo	•	•	•
HP 16x dual-layer DVD+RW	4	4	4
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	9	9	9
HP Scroll Mouse, PS/2	9	9	9
HP Optical Scroll Mouse, USB	9	9	9
HP Standard Keyboard, USB	9	9	9
Modular Keyboard/ TPM Module/ Smart Card			
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw4300; Select "download drivers and software";   Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 3 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID.

footnote 7 - The xw4300 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Please refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on how to install the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 10 - For RHEL3 U5, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw4300. For RHEL4, use the built-in ALSA Sound Support.

footnote 11 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

Linux Hardware Matrix for HP Workstations

HP xw4400 Workstation
Originally certified with RHEL 3 Update 8 (x86 & x86_64), RHEL4 Update 4 (x86 & x86_64), and RHEL5 (x86 & x86_64)

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U8 or later (x86)	RH EL WS 3 U8 or later (EM64T)	RH EL WS 4 U5 or later (x86 & EM64T)	RH EL DT 5 or later (x86 & x86_64)
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Kit	•	•	•	•
Software				
Remote Graphics Software	•	•		
All Supported Processors				
All Supported Processors (1 & 2 CPU configs)	•	•	•	•
Hyperthreading	•	•	•	•
Graphics Card (Video Card) (See footnote 2)				
No Graphics Card	•	•	•	•
NVIDIA Quadro NVS 285	•	•	•	•
NVIDIA Quadro NVS440			•	•
NVIDIA Quadro FX560	•	•	•	•
NVIDIA Quadro FX1500	•	•	•	•
NVIDIA Quadro FX3500	•	•	•	•
NVIDIA Quadro FX4500	•	•	•	•
NVIDIA Quadro FX4600	11	11	11	11
G-Card (to be used with the FX4500)	•	•	•	•
SLI Graphics Connector				
ATI v3300 PCIe	•	•		
ATI v3350 PCIe	•	•		
ATI v7200 PCIe	•	•		
System RAM				
Minimum (MB)	512	512	512	512
Maximum	8GB	8GB	8GB	8GB
Hard Disks				
All Supported SAS Disk Drives	5	5	5	5
All Supported SATA Disk Drives	5,7	5,7	5,7	5,7
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5751 PCIe	•	•	•	•
Onboard Components				
Onboard LAN - Broadcom 5755 10/100/1000	2	2	2	2
Onboard Audio	10	10	10	10
Onboard SATA RAID			6	6
Add Ons				
LSI 3041E SAS Card	•	•	•	•
IEEE 1394 PCI Card				
All non-RAID U320 SCSI Controllers	•	•	•	•
SATA Controllers				
Creative Sound Blaster Audigy 2 ZS				
Hardware RAID			6	6
Removable CD/DVD Media				
HP 48x CD-ROM Drive	•	•	•	•
HP 16x DVD-ROM Drive	•	•	•	•
HP 48x DVD/CDRW Combo	•	•	•	•
HP 16x dual-layer DVD+RW	4	4	4	4
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	9	9	9	9
HP Scroll Mouse, PS/2	9	9	9	9
HP Optical Scroll Mouse, USB	9	9	9	9
HP Standard Keyboard, USB	9	9	9	9
Modular Keyboard/ TPM Module/ Smart Card				
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw4400 (substitute correct platform name); Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 3 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. Mixed drives are offered on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is supported using the LSI 3041E Card (RAID 0,1 SAS Only). SATA RAID is not supported.

footnote 7 - The xw4400 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 10 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw4400. For RHEL4, use the built-in ALSA Sound Support.

footnote 11 - The accelerated graphics works very well. Vesa driver has issues with this card.

Linux Hardware Matrix for HP Workstations		
HP xw4550 Workstation		
This page is not complete without the General Notes (first page of the matrix).		
Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 4.6 or later (x86 & EM64T)	RH EL DT 5.1 or later (x86 & x86_64)
HP Workstation Base System		
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•
Localization Kit (See footnote 1)		
HP Localization Kit	•	•
Software		
Remote Graphics Software		
All Supported Processors		
All Supported Processors (1 & 2 CPU configs)	•	•
Graphics Card (Video Card) (See footnote 2)		
ATI x1250 Onboard Graphics	•	•
No Graphics Card	•	•
NVIDIA Quadro NVS 290	•	•
NVIDIA Quadro FX370	•	•
NVIDIA Quadro FX570	•	•
NVIDIA Quadro FX1700	•	•
NVIDIA Quadro FX4600		
ATI v5600 PCIe		
System RAM		
Minimum (MB)	1GB	1GB
Maximum	4GB	4GB
Hard Disks		
All Supported SATA Disk Drives	5	5
All Supported USB Drive Keys	•	•
Network Cards (no modem support)		
Broadcom 5751 PCIe		
Onboard Components		
Onboard LAN - Broadcom 5755 10/100/1000	•	•
Onboard Audio	•	•
Onboard SATA RAID	6	6
Add Ons		
IEEE 1394 PCI Card		
Creative Sound Blaster X-Fi		
Removable CD/DVD Media		
HP 16x DVD-ROM Drive	•	•
HP 16x dual-layer DVD+RW	4	4
Input/Output Devices (no spaceball support)		
HP 3-Button Mouse, PS/2	7	7
HP Scroll Mouse, PS/2	7	7
HP Optical Scroll Mouse, USB	7	7
HP Standard Keyboard, USB	7	7
Modular Keyboard/ TPM Module/ Smart Card		
HP Printers	8	8
All Supported Monitors	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.6", and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.1" ISO images from http://www.hp.com/support/xw4550 (substitute correct platform name); Select "download drivers and software".

footnote 3 - 290 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is not supported on the xw4550.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net

Linux Hardware Matrix for HP Workstations			
HP xw4600 Workstation			
Originally certified with RHEL4 Update 5 (x86 & x86_64), RHEL5 (x86 & x86_64), and SLED 11 (x86 & x86_64)			
This page is not complete without the General Notes (first page of the matrix).			

Product Items/Features (Blank box or unlisted -> component is NOT functional w/ as-is OS)	RH EL WS 4 U5 or later (x86 & EM64T)	RH EL DT 5 or later (x86 & x86_64)	SLED11 or later (x86_64)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 CPU configs)	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card	•	•	•
NVIDIA Quadro NVS 290	•	•	•
NVIDIA Quadro NVS 295	•	•	•
NVIDIA Quadro NVS440	•	•	•
NVIDIA Quadro NVS450	•	•	•
NVIDIA Quadro FX370	•	•	•
NVIDIA Quadro FX380	•	•	•
NVIDIA Quadro FX570	•	•	•
NVIDIA Quadro FX580	•	•	•
NVIDIA Quadro FX1700	•	•	•
NVIDIA Quadro FX1800	•	•	•
NVIDIA Quadro FX3700	•	•	•
NVIDIA Quadro FX3800	•	•	•
NVIDIA Quadro FX4600	•	•	•
NVIDIA Quadro FX4800	•	•	•
NVIDIA Quadro FX5800	•	•	•
ATI v3700 PCIe	•	•	•
ATI v5600 PCIe			
ATI v5700 PCIe	•	•	•
ATI v7700 PCIe			
ATI v7750 PCIe	•	•	•
System RAM			
Minimum (GB)	1GB	1GB	1GB
Maximum (GB)	8GB	8GB	8GB
Hard Disks			
All Supported SAS Disk Drives	5	5	5
All Supported SSD Disk Drives	•	•	•
All Supported SATA Disk Drives	4,6	4,6	4,6
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Broadcom 5751 PCIexpress	•	•	•
Intel Pro 1000 PT Gigabit PCI	•	•	•
Onboard Components			
Onboard LAN - Broadcom 5755 10/100/1000	2	2	2
Onboard Audio	•	•	•
Onboard SATA RAID	5	5	5
Add Ons			
LSI 3041E SAS Card	•	•	•
IEEE 1394 PCI Card			
All non-RAID U320 SCSI Controllers	•	•	•
SATA Controllers			
Creative Sound Blaster X-Fi			
Hardware RAID	5	5	5
Removable CD/DVD Media			
HP 48x CD-ROM Drive	•	•	•
HP 16x DVD-ROM Drive	•	•	•
HP 48x DVD/CDRW Combo	•	•	•
HP 16x dual-layer DVD+RW	3	3	3
HP BD-RE (writer)	•	•	•
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	•	•	•
HP Scroll Mouse, PS/2	•	•	•
HP Optical Scroll Mouse, USB	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•
TPM Module/ Smart Card			
HP Printers	7	7	7
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.8", and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3" ISO images from http://www.hp.com/support/xw4600   (s ubstitute correct platform name); Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later and SLED11 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 4 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 5 - Hardware RAID is supported using the LSI 3041E (RAID 0,1 SAS Only). SATA RAID is not supported.

footnote 6 - The xw4600 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 7 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net

Linux Hardware Matrix for HP Workstations							
HP xw6000 Workstation Originally certified with RHEL 3 Update 1							
This page is not complete without the General Notes (first page of the matrix).							

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U1 or later	RH EL WS 3 pre-install	Red Hat 9	Red Hat 8	Red Hat 7.3	Red Hat 7.3 pre-install	Red Hat 7.2
HP Workstation Base System (no IEEE-1394 support)							
Base system includes: Chassis, System Board, USB, cables, etc.	•	•	•	•	•	8	•
Localization Kit (See footnote 5)							
HP Localization Kit	•	•	•	•	•	2,8	•
Operating Systems (See footnote 1)							
HP Installer CD for Red Hat Linux (May 2004)			3	3	3		3
HP Driver CD for Red Hat Enterprise Linux WS 3 (May 2004)	3						
32-bit Red Hat Enterprise Linux WS 3 Pre-installed (Update 1 - May 2004)		•					
Intel Pentium4/Xeon Processors							
All Supported Processors (1 & 2 CPU configs)	•	•	•	•	•	8	
Hyperthreading	•	•	•				
Graphics Card (Video Card) (See footnote 3)							
No Graphics Card	•	•	•	•	•	•	•
NVIDIA Entry 2D Graphics 32MB AGP							
NVIDIA Quadro4 200 NVS 64MB AGP	9	9	9	9	9	9,	8
NVIDIA Quadro NVS 280 64MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro NVS 280 64MB PCI	6	6	6	6	6	6,	8
NVIDIA Quadro NVS 400 128MB PCI							
NVIDIA Quadro4 380 XGL 64MB AGP	•	•	•	•	•	2,8	
ATI FireGL T2-128 128MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro4 980 XGL 128MB AGP	•	•	•	•	•	2,8	
ATI Fire GL Z1 3D 128MB AGP	9	9	9	9	9	9,	8
ATI Fire GL X1 3D 256MB AGP	9	9	9	9	9	9,	8
NVIDIA Quadro FX2000 128MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro FX3000 256MB AGP	•	•	•	•	•	2,8	
NVIDIA Quadro FX1100 128MB AGP	•	•	•	•	•	2,8	
System RAM							
Minimum (MB)	512	512	256	256	256	256	256
Maximum	8GB	8GB	8GB	8GB	8GB	8GB	4GB
Hard Disks (Preinstalled systems may only be ordered with one disk type: either SATA, SCSI, or IDE, not mixed.)							
All Supported EIDE ATA Disk Drives	•	•	•	•	•	8	•
All Supported non-RAID SCSI Controllers	•	•	•	•	•	8	•
All Supported SCSI Disk Drives	•	•	•	•	•	8	•
All Supported SATA Disk Drives							
HP Drive Key 128, 256MB	•	•					
Network Cards (no modem support)							
Integrated LAN - (Broadcom 57x2,or Intel Pro)	•	•	•	•	•	•	•
Broadcom 5782 Card	•	•	•	•	•	2,8	
Intel Pro 1000 MT	•	•	•	•	•	2,8	
Removable CD/DVD Media							
HP 48x CD-ROM Drive	•	•	•	•	•	8	•
HP 16x DVD-ROM Drive	•	•	•	•	•	8	•
HP 48x CD-RW Drive	•	•	•	•	•	8	
HP 48x DVD/CDRW Combo	•	•	•	•	•	8	
HP 8x DVD+RW 400i Kit	4	4	4	4	4	4,	8
Input/Output Devices (no spaceball support)							
HP 3-Button Mouse, PS/2	•	•	•	•	•	8	•
HP Scroll Mouse, PS/2	•	•	•	•	•	8	•
HP Optical Scroll Mouse, USB	•	•	•	•	•	8	•
All Supported Monitors	•	•	•	•	•	8	•

footnote 1 - OS references in this matrix are part of the "HP Installer Kit for Linux" unless labeled as preinstall. The HP Installer and Driver CDs form the "HP Installer Kit for Linux" work in conjunction with Red Hat CDs (purchase separately) to add customizations for HP hardware. Check for updated ISO images - See footnote 3.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit and do mandatory download of web driver. See footnote 3.

footnote 3 - Get the latest drivers and "HP Installer CD for Red Hat Linux <7.2, 7.3, 8.0, 9>" and "HP Driver CD for Red Hat Enterprise Linux 3" ISO images from http://www.hp.com/support/<xw4100, xw6000, xw8000>; Select "download drivers and software"; Select OS; Select file. See www.hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs support for DVD+RW is available only on 32-bit Red Hat EL WS 3. Nero DVD+RW software is supported on RedHat 7.3, 8.0, 9, and EL WS 3. Drive kit is AMO only. See footnote 2.

footnote 5 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABF Japan-English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AK6 Europe A4).

footnote 6 - 280 NVS PCI card may be used alone or with the 280 NVS AGP card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 7 - The OS CDs for 'Red Hat Enterprise Linux WS 3' are included with preinstalled systems. For systems ordered with the HP Installer Kit for Linux, purchase the OS separately as an AMO kit. The May 2004 'HP Driver CD for Red Hat Enterprise Linux WS 3' contains drivers which are compatible with both the Update1 and Update2 32-bit OS AMO kits.   Order box set AMO kits from http://www.hp.com/workstations/ia32/options/software.html

footnote 8 - Red Hat 7.3 pre-install was discontinued at the end of Feb. 2004. This column is a reference for users upgrading system components.

footnote 9 - This component was supported, but is no longer orderable with new systems.

Linux Hardware Matrix for HP Workstations

HP xw8200 Workstation
Originally certified with RHEL 3 Update 2 (x86 & x86_64), and RHEL4 Initial (x86 & x86_64)

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U7 or later (x86)	RH EL WS 3 U7 or later (EM64T)	RH EL WS 4 U3 or later (x86 & EM64T)	Red Hat 7.2	Red Hat 7.3
HP Workstation Base System					
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•	•
Localization Kit (See footnote 1)					
HP Localization Kit	•	•	•	•	•
Software					
Remote Graphics Software	•	•			
All Supported Processors					
All Supported Processors (1 & 2 CPU configs)	•	•	•	•	•
Hyperthreading	•	•	•		
Graphics Card (Video Card) (See footnote 3)					
No Graphics Card	•	•	•	•	•
NVIDIA Quadro FX330 64MB PCIe	•	•	•	•	•
NVIDIA Quadro FX1300 128MB PCIe	•	•	•	•	•
NVIDIA Quadro FX3400 256MB PCIe	•	•	•	•	•
NVIDIA Quadro FX3450 256MB PCIe	•	•	•	•	•
NVIDIA Quadro FX4500 256MB PCIe					
G-Card (to be used with the FX4500)					
NVIDIA Quadro NVS 280 64MB PCI (See footnote 6)	•	•	•	•	•
NVIDIA Quadro NVS 280 64MB PCIe	•	•	•	•	•
NVIDIA Quadro NVS 285 64MB PCIe	•	•	•		
NVIDIA Quadro FX540	•	•	•	•	•
NVIDIA Quadro FX1400	•	•	•	•	•
NVIDIA Quadro NVS400					
NVIDIA Quadro NVS440 PCIe					
SLI Graphics Connector					
ATI v3100 PCIe	•	•	•		
ATI v5100 PCIe	8	8	8		
System RAM					
Minimum (MB)	512	512	512	256	256
Maximum	8GB 8GB 8GB			4GB	8GB
Hard Disks					
All Supported SCSI Disk Drives	7	7	7	7	7
All Supported SATA Disk Drives	7	7	7		
All Supported USB Drive Keys	•	•	•		
Network Cards (no modem support)					
Broadcom 5782 NetXtreme Gigabit PCI	•	•	•	2	2
Broadcom 5751 PCIe	•	•	•	•	•
Intel Pro 1000 MT Gigabit PCI	•	•	•	2	2
Onboard Components					
Onboard LAN - Broadcom 5751 10/100/1000	•	•	•	•	•
Onboard Audio	•	•	•	•	•
Onboard SATA RAID	5	5	5	5	5
Add Ons					
IEEE 1394 PCI Card					
All non-RAID U320 SCSI Controllers	•	•	•	•	•
SATA Controllers					
Creative Sound Blaster Audigy 2 ZS					
Hardware RAID	5	5	5	5	5
Remote Graphics Software					
Removable CD/DVD Media					
HP 48x CD-ROM Drive	•	•	•	•	•
HP 16x DVD-ROM Drive	•	•	•	•	•
HP 48x CD/RW Drive	•	•	•	•	•
HP 16x dual-layer DVD+RW	4	4	4	•	4
Input/Output Devices (no spaceball support)					
HP 3-Button Mouse, PS/2	9	9	9	•	•
HP Scroll Mouse, PS/2	9	9	9	•	•
HP Optical Scroll Mouse, USB	9	9	9		
HP Standard Keyboard, USB	9	9	9		
Modular Keyboard/ TPM Module/ Smart Card					
All Supported Monitors	•	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw6200
(substitute correct platform name); Select "download drivers and software"; Select OS; Select file to download. Also: http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card,
LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It's a good alternative to hardware-based RAID

footnote 6 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 7 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on how to install the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

Linux Hardware Matrix for HP Workstations				
HP xw6400 Workstation Originally certified with RHEL 3 Update 7 (x86 & x86_64), RHEL4 Update 3 (x86 & x86_64), and RHEL5 (x86 & x86_64)				
This page is not complete without the General Notes (first page of the matrix).				
Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U7 or later (x86)	RH EL WS 3 U7 or later (EM64T)	RH EL WS 4 U5 or later (x86 & EM64T)	RH EL DT 5 or later (x86 & x86_64)
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Ki	•	•	•	•
Software				
Remote Graphics Software	•	•		
All Supported Processors				
All Supported Processors (1 & 2 CPU configs)	•	•	•	•
Hyperthreading				
Graphics Card (Video Card) (See footnote 3)				
No Graphics Card	•	•	•	•
G-Card (to be used with the FX4500)	•	•	•	•
SLI Graphics Connector				
NVIDIA Quadro NVS285	•	•	•	•
NVIDIA Quadro NVS440			•	•
NVIDIA Quadro FX560	•	•	•	•
NVIDIA Quadro FX1500	•	•	•	•
NVIDIA Quadro FX3500	•	•	•	•
NVIDIA Quadro FX4500	•	•	•	•
NVIDIA Quadro FX4600	9	9	9	9
ATI v3300 PCIe	•	•		
ATI v3350 PCIe	•	•		
ATI v7200 PCIe	•	•		
System RAM				
Minimum (MB)	512	512	512	512
Maximum	16GB	16GB 16GB 16GB		
Hard Disks				
All Supported SAS Disk Drives				
All Supported SATA Disk Drives	6	6	6	6
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5751 PCIe	•	•	•	•
Onboard Components				
Onboard LAN - Broadcom 5752 10/100/1000	•	•	•	•
Onboard Audio	8	8	8	8
Onboard SATA RAID			5	5
Add Ons				
LSI 3041E SAS Card	•	•	•	•
IEEE 1394 PCI Card				
SATA Controllers				
Creative Sound Blaster Audigy 2 ZS				
Hardware RAID			5	5
Removable CD/DVD Media				
HP 48x CD-ROM Drive	•	•	•	•
HP 16x DVD-ROM Drive	•	•	•	•
HP 48x DVD/CDRW Combo	•	•	•	•
HP 16x dual-layer DVD+RW	4	4	4	4
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	7	7	7	7
HP Scroll Mouse, PS/2	7	7	7	7
HP Optical Scroll Mouse, USB	7	7	7	7
HP Standard Keyboard, USB	7	7	7	7
Modular Keyboard/ TPM Module/ Smart Card				
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw6400 (substitute correct platform name); Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is supported using the LSI 3041E card (RAID 0,1 SAS Only). SATA RAID is not supported.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SAS, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw8400. For RHEL4, use the built in ALSA Sound Support.

footnote 9 - The accelerated graphics works very well. Vesa driver has issues with this card.

Linux Hardware Matrix for HP Workstations							
HP xw8000 Workstation							
Originally certified with RHEL 3 Update 1							
This page is not complete without the General Notes (first page of the matrix).							
Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U1 or later	RH EL WS 3 pre-install	Red Hat 9	Red Hat 8	Red Hat 7.3	Red Hat 7.3 pre-install	Red Hat 7.2
HP Workstation Base System (no IEEE-1394 support)							
Base system includes: Chassis, System Board, USB, cables, etc.	•	•	•	•	•	7	•
Localization Kit (See footnote 5)							
HP Localization Kit	•	•	•	•	•	2,7	•
Operating Systems (See footnote 1)							
HP Installer CD for Red Hat Linux (May 2004)			3	3	3		3
HP Driver CD for Red Hat Enterprise Linux WS 3 (May 2004)	3						
32-bit Red Hat Enterprise Linux WS 3 Preinstalled (Update 1 - May '04)		•					
Intel Pentium4/Xeon Processors							
All Supported Processors (1 & 2 CPU configs)	•	•	•	•	•	7	•
Hyperthreading	•	•	•				
Graphics Card (Video Card) (See footnote 3)							
No Graphics Card	•	•	•	•	•	•	•
NVIDIA Entry 2D Graphics 32MB AGP							
NVIDIA Quadro4 200 NVS 64MB AGP	8	8	8	8	8	8,	8
NVIDIA Quadro NVS 280 64MB AGP	•	•	•	•	•	2,7	•
NVIDIA Quadro NVS 280 64MB PCI	2	2	2	2	2	2,7	
NVIDIA Quadro NVS 400 128MB PCI							
NVIDIA Quadro4 380 XGL 64MB AGP	•	•	•	•	•	2,7	•
ATI Fire GL T2-128 128MB AGP	•	•	•	•	•	2,7	
NVIDIA Quadro4 980 XGL 128MB AGP	•	•	•	•	•	2,7	•
ATI Fire GL Z1 3D 128MB AGP	8	8	8	8	8	8,	7
ATI Fire GL X1 3D 256MB AGP	8	8	8	8	8	8,	7
NVIDIA Quadro FX2000 128MB AGP	•	•	•	•	•	2,7	
NVIDIA Quadro FX3000 256MB AGP	•	•	•	•	•	2,7	
NVIDIA Quadro FX1100 128MB AGP	•	•	•	•	•	2,7	
System RAM							
Minimum (MB)	512	512	256	256	256	256	256
Maximum	12GB	12GB	8GB	8GB	8GB	8GB	3GB
Hard Disks (Preinstalled systems may only be ordered with one disk type: either SATA, SCSI, or IDE, not mixed.)							
All Supported EIDE ATA Disk Drives	•	•	•	•	•	7	
All Supported non-RAID SCSI Controllers	•	•	•	•	•	7	
All Supported SCSI Disk Drives	•	•	•	•	•	7	
All Supported SATA Disk Drives							
HP Drive Key 128, 256MB	•	•					
Network Cards (no modem support)							
Integrated LAN - (Broadcom 57x2,or Intel Pro)	•	•	•	•	•	•	
Broadcom 5782 Card	•	•	•	•	•	2,7	
Intel Pro 1000 MT	•	•	•	•	•	2,7	
Removable CD/DVD Media							
HP 48x CD-ROM Drive	•	•	•	•	•	7	•
HP 16x DVD-ROM Drive	•	•	•	•	•	7	•
HP 48x CD-RW Drive	•	•	•	•	•	7	
HP 48x DVD/CDRW Combo	•	•	•	•	•	7	
HP 8x DVD+RW 400i Kit	4	4	4	4	4	4,	7
Input/Output Devices (no spaceball support)							
HP 3-Button Mouse, PS/2	•	•	•	•	•	7	•
HP Scroll Mouse, PS/2	•	•	•	•	•	7	•
HP Optical Scroll Mouse, USB	•	•	•	•	•	7	•
All Supported Monitors	•	•	•	•	•	7	•

footnote 1 - OS references in this matrix are part of the "HP Installer Kit for Linux" unless labeled as preinstall. The HP Installer and Driver CDs from the "HP Installer Kit for Linux" work in conjunction with Red Hat CDs (purchase separately) to add customizations for HP hardware. Check for updated ISO images - See footnote 3.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit and do mandatory download of web driver. See footnote 3.

footnote 3 - Get the latest drivers and "HP Installer CD for Red Hat Linux <7.2, 7.3, 8.0, 9>" and "HP Driver CD for Red Hat Enterprise Linux 3" ISO images from http://www.hp.com/support/<xw4100, xw6000, xw8000>; Select "download drivers and software"; Select OS; Select file. See www.hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs support for DVD+RW is available only on 32-bit Red Hat EL WS 3. Nero DVD+RW software is supported on RedHat 7.3, 8.0, 9, and EL WS 3. Drive kit is AMO only. See footnote 2.

footnote 5 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABF Japan-English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AK6 Europe A4).

footnote 6 - The OS CDs for 'Red Hat Enterprise Linux WS 3' are included with preinstalled systems. For systems ordered with the HP Installer Kit for Linux, purchase the OS separately as an AMO kit. The May 2004 'HP Driver CD for Red Hat Enterprise Linux WS 3' contains drivers which are compatible with both the Update1 and Update2 32-bit OS AMO kits.   Order box set AMO kits from http://www.hp.com/workstations/ia32/options/software.html

footnote 7 - Red Hat 7.3 pre-install was discontinued at the end of Feb. 2004. This column is a reference for users upgrading system components.

footnote 8 - This component was supported, but is no longer orderable with new systems.

Linux Hardware Matrix for HP Workstations					
HP xw8200 Workstation Originally certified with RHEL 3 Update 2 (x86 & x86_64), and RHEL4 Initial (x86 & x86_64)					
This page is not complete without the General Notes (first page of the matrix).					
Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U7 or later (x86)	RH EL WS 3 U7 or later (EM64T)	RH EL WS 4 U3 or later (x86 & EM64T)	Red Hat 7.2	Red Hat 7.3
HP Workstation Base System					
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•	•
Localization Kit (See footnote 1)					
HP Localization Kit	•	•	•	•	•
Software					
Remote Graphics Software	•	•			
All Supported Processors					
All Supported Processors (1 & 2 CPU configs)	•	•	•	•	•
Hyperthreading	•	•	•		
Graphics Card (Video Card) (See footnote 3)					
No Graphics Card	•	•	•	•	•
NVIDIA Quadro FX330 64MB PCIe	•	•	•	•	•
NVIDIA Quadro FX1300 128MB PCIe	•	•	•	•	•
NVIDIA Quadro FX3400 256MB PCIe	•	•	•	•	•
NVIDIA Quadro FX3450 256MB PCIe	•	•	•		
NVIDIA Quadro FX4500 256MB PCIe	•	•	•		
G-Card (to be used with the FX4500)					
NVIDIA Quadro NVS 280 64MB PCI (See footnote 5)	•	•	•	•	•
NVIDIA Quadro NVS 280 64MB PCIe	•	•	•	•	•
NVIDIA Quadro NVS 280 64MB PCIe	•	•	•		
NVIDIA Quadro FX540	•	•	•	•	•
NVIDIA Quadro FX1400	•	•	•	•	•
NVIDIA Quadro NVS400					
NVIDIA Quadro NVS440 PCIe					
SLI Graphics Connector					
ATI v3100 PCIe	•	•	•		
ATI v5100 PCIe	8	8	8		
System RAM					
Minimum (MB)	512	512	512	512	512
Maximum	16GB	16GB	16GB	4GB	8GB
Hard Disks					
All Supported SCSI Disk Drives	7	7	7	7	7
All Supported SATA Disk Drives	7	7	7		
All Supported USB Drive Keys	•	•	•		
Network Cards (no modem support)					
Broadcom 5782 NetXtreme Gigabit PCI	•	•	•	2	2
Broadcom 5751 PCIe	2	2	2	2	2
Intel Pro 1000 MT Gigabit PCI	•	•	•	2	2
Intel Pro 1000 GT Gigabit PCI	•	•	•	2	2
Onboard Components					
Onboard LAN - Intel 10/100/1000	•	•	•	•	•
Onboard Audio	•	•	•	•	•
Onboard SATA RAID	6	6	6	6	6
Add Ons					
IEEE 1394 PCI Card					
All non-RAID U320 SCSI Controllers	•	•	•	•	•
SATA Controllers					
LSI 3041 SAS/SATA Controller					
Creative Sound Blaster Audigy 2 ZS					
Hardware RAID	6	6	6	6	6
Removable CD/DVD Media					
HP 48x CD-ROM Drive	•	•	•	•	•
HP 16x DVD-ROM Drive	•	•	•	•	•
HP 48x CD/RW Drive	•	•	•	•	•
HP 16x dual-layer DVD+RW	4	4	4	•	4
Input/Output Devices (no spaceball support)					
HP 3-Button Mouse, PS/2	9	9	9	•	•
HP Scroll Mouse, PS/2	9	9	9	•	•
HP Optical Scroll Mouse, USB	9	9	9		
HP Standard Keyboard, USB	9	9	9		
Modular Keyboard/ TPM Module/ Smart Card					
All Supported Monitors	•	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw8200 (substitute correct platform name); Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 6 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It's a good alternative to hardware-based RAID

footnote 7 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Please refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on installing the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

Linux Hardware Matrix for HP Workstations			
HP xw8400 Workstation			
Originally certified with RHEL 3 Update 7 (x86 & x86_64), RHEL4 Update 3 (x86 & x86_64), and RHEL5 (x86 & x86_64)			
This page is not complete without the General Notes (first page of the matrix).			

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U7 or later (x86)	RH EL WS 3 U7 or later (EM64T)	RH EL WS 4 U5 or later (x86 & EM64T)	RH EL DT 5 or later (x86 & x86_64)
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Kit	•	•	•	•
Software				
Remote Graphics Software	•	•		
All Supported Processors				
All Supported Processors (1 & 2 CPU configs)	•	•	•	•
Hyperthreading				
Graphics Card (Video Card) (See footnote 3)				
No Graphics Card	•	•	•	•
NVIDIA Quadro NVS 285	•	•	•	•
NVIDIA Quadro NVS440			2	2
NVIDIA Quadro FX560	•	•	•	•
NVIDIA Quadro FX1500	•	•	•	•
NVIDIA Quadro FX3500	•	•	•	•
NVIDIA Quadro FX4500	•	•	•	•
NVIDIA Quadro FX4600	9	9	9	9
NVIDIA Quadro FX5500	•	•	•	•
G-Card (to be used with the FX4500)	•	•	•	•
SLI Graphics Connector				
ATI v3300 PCIe	•	•		
ATI v3350 PCIe	•	•		
ATI v7200 PCIe	•	•		
System RAM				
Minimum (MB)	512	512	512	512
Maximum	32GB	32GB	32GB	32GB
Hard Disks				
All Supported SAS Disk Drives	6	6	6	6
All Supported SATA Disk Drives	6	6	6	6
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5751 PCIe	•	•	•	•
Intel Pro 1000 GT Gigabit PCI	•	•	•	•
Onboard Components				
Onboard LAN - Broadcom 5752 10/100/1000	•	•	•	•
Onboard Audio	8	8	8	8
Onboard SATA/SAS RAID			5	5
Add Ons				
IEEE 1394 PCI Card				
SATA Controllers				
Creative Sound Blaster Audigy 2 ZS				
LSI 8344			5	5
Hardware RAID			5	5
Removable CD/DVD Media				
HP 48x CD-ROM Drive	•	•	•	•
HP 16x DVD-ROM Drive	•	•	•	•
HP 48x DVD/CDRW Combo	•	•	•	•
HP 16x dual-layer DVD+RW	4	4	4	4
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	7	7	7	7
HP Scroll Mouse, PS/2	7	7	7	7
HP Optical Scroll Mouse, USB	7	7	7	7
HP Standard Keyboard, USB	7	7	7	7
Modular Keyboard/ TPM Module/ Smart Card				
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw8400 (substitute correct platform name);
Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual ->'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is supported using the LSI 8344 ELP (RAID 0,1, 10 SAS Only) and Onboard SAS RAID (RAID 0,1,). SATA RAID is not supported.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SAS, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw8400. For RHEL4, use the built-in ALSA Sound Support.

footnote 9 - The accelerated graphics works very well. Vesa driver has issues with this card.

Linux Hardware Matrix for HP Workstations			
HP xw8600 Workstation Originally certified with RHEL4.5 (x86 & x86_64), RHEL5 (x86 & x86_64), and SLED 11 (x86_64)			
This page is not complete without the General Notes (first page of the matrix).			
Product Items/Features (Blank box or unlisted -> component is NOT functional w/ as-is OS)	**RH EL WS 4.6 or later (x86 & EM64T)**	**RH EL DT 5.1 or later (x86 & x86_64)**	**SLED11 or later (x86_64)**
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software			
All Supported Processors			
All Supported Processors (1 & 2 CPU configs)	•	•	•
Hyperthreading			
Graphics Card (Video Card) (See footnote 3)			
No Graphics Card	•	•	•
NVIDIA Quadro NVS 290	•	•	•
NVIDIA Quadro NVS 295	•	•	•
NVIDIA Quadro NVS440	•	•	•
NVIDIA Quadro NVS450	•	•	•
NVIDIA Quadro FX370	•	•	•
NVIDIA Quadro FX380	•	•	•
NVIDIA Quadro FX570	•	•	•
NVIDIA Quadro FX580	•	•	•
NVIDIA Quadro FX1700	•	•	•
NVIDIA Quadro FX1800	•	•	•
NVIDIA Quadro FX3700	•	•	•
NVIDIA Quadro FX3800	•	•	•
NVIDIA Quadro FX4600	•	•	•
NVIDIA Quadro FX4800	•	•	•
NVIDIA Quadro FX5800	•	•	•
SLI Graphics Connector			
ATI v5600 PCIe			
ATI v5700 PCIe			
ATI v7700 PCIe			
ATI v7750 PCIe			
System RAM			
Minimum (MB)	512	512	512
Maximum	128GB	128GB	128GB
Hard Disks			
All Supported SAS Disk Drives	6	6	6
All Supported SATA Disk Drives	6	6	6
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Broadcom 5751 PCIe	•	•	•
Intel Pro 1000 PT Gigabit PCI	•	•	•
Onboard Components			
Onboard LAN - Broadcom 5755 10/100/1000	•	•	•
Onboard Audio	•	•	•
Onboard SATA/SAS RAID	5	5	5
Add Ons			
IEEE 1394 PCI Card			
Creative Sound Blaster X-Fi			
LSI 8888 ELP	5	5	5
Hardware RAID	5	5	5
Removable CD/DVD Media			
HP 48x CD-ROM Drive	•	•	•
HP 16x DVD-ROM Drive	•	•	•
HP 48x DVD/CDRW Combo	•	•	•
HP 16x dual-layer DVD+RW	4	4	4
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	7	7	7
HP Scroll Mouse, PS/2	7	7	7
HP Optical Scroll Mouse, USB	7	7	7
HP Standard Keyboard, USB	7	7	7
Modular Keyboard/ TPM Module/ Smart Card			
HP Printers	8	8	8
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.6", and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.1" ISO images from http://www.hp.com/support/xw8600 (substitute correct platform name); Select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is supported using the LSI 8888 ELP card (RAID 0,1, 5 SAS Only) and Onboard SAS RAID (RAID 0,1,). SATA RAID is not supported.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SAS, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net

Linux Hardware Matrix for HP Workstations

HP xw9300 Workstation
Originally certified with RHEL 3 Update 5 (x86), RHEL3 Update 4 (x86_64), and RHEL4 Update 1 (x86 & x86_64)

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U7 or later (x86)	RH EL WS 3 U7 or later (EM64T)	RH EL WS 4 U3 or later (x86 & EM64T)
HP Workstation Base System			
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•
Localization Kit (See footnote 1)			
HP Localization Kit	•	•	•
Software			
Remote Graphics Software	•	•	•
All Supported Processors			
All Supported Processors (1 & 2 CPU configs)	•	•	•
Hyperthreading			
Dual-core Opteron (2.0GHz, 2.2GHz, 2.4GHz and 2.8GHz)	•	•	•
Graphics Card (Video Card) (See footnote 2)			
No Graphics Card		•	•
NVIDIA Quadro FX3400 256MB PCIe	•	•	•
NVIDIA Quadro FX3450 256MB PCIe	•	•	•
NVIDIA Quadro FX4500 256MB PCIe	•	•	•
G-Card (to be used with the FX4500)			
NVIDIA Quadro NVS 280 64MB PCI (See footnote 3)			
NVIDIA Quadro NVS 280 64MB PCIe	•	•	•
NVIDIA Quadro NVS 285 64MB PCIe	•	•	•
NVIDIA Quadro FX540	•	•	•
NVIDIA Quadro FX1400	•	•	•
NVIDIA Quadro NVS400			
NVIDIA Quadro NVS440 PCIe			
SLI Graphics Connector	5	5	5
ATI v3100 PCIe			
ATI v5100 PCIe			
System RAM			
Minimum (MB)	1GB	1GB	1GB
Maximum	32GB	32GB	32GB
Hard Disks			
All Supported SCSI Disk Drives	6	6	6
All Supported SATA Disk Drives	6,8	6,8	6,8
All Supported USB Drive Keys	•	•	•
Network Cards (no modem support)			
Broadcom 5782 NetXtreme Gigabit PCI	•	•	•
Broadcom 5751 PCIe	9	9	9
Intel Pro 1000 MT Gigabit PCI			
Intel Pro 1000 GT Gigabit PCI	•	•	•
Onboard Components			
Onboard LAN - Nvidia	•	•	•
Onboard Audio	•	•	•
Onboard SATA RAID	7	7	7
Add Ons			
IEEE 1394 PCI Card			
All non-RAID U320 SCSI Controllers	•	•	•
SATA Controllers			
Creative Sound Blaster Audigy 2 ZS			
Hardware RAID	7	7	7
Removable CD/DVD Media			
HP 48x CD-ROM Drive	•	•	•
HP 16x DVD-ROM Drive	•	•	•
HP 48x CD/RW Drive	•	•	•
HP 48x DVD/CDRW Combo	•	•	•
HP 16x dual-layer DVD+RW	4	4	4
Input/Output Devices (no spaceball support)			
HP 3-Button Mouse, PS/2	10	10	10
HP Scroll Mouse, PS/2	10	10	10
HP Optical Scroll Mouse, USB	10	10	10
HP Standard Keyboard, USB	10	10	10
Modular Keyboard/ TPM Module/ Smart Card			
All Supported Monitors	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw9300 (substitute correct platform name); Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 3 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - The SLI Graphics Connector is offered on the HPIKL (FreeDOS) configuration.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID.

footnote 8 - The xw9300 is capable of supporting up to 4 SATA drives. The xw4300 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 9 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 10 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

Linux Hardware Matrix for HP Workstations

HP xw9400 Workstation
Originally certified with RHEL 3 Update 8 (x86_64), RHEL4 Update 4 (x86 & x86_64), RHEL5 (x86 & x86_64), and SLED 11 (x86_64)

This page is not complete without the General Notes (first page of the matrix).

Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS)	RH EL WS 3 U8 or later (x86 & EM64T)	RH EL WS 4 U5 or later (x86 & EM64T)	RH EL DT 5 or later (x86 & x86_64)	SLED11 or later (x86_64)
HP Workstation Base System				
Base system includes: Chassis, System Board, USB, Power Supply, etc.	•	•	•	•
Localization Kit (See footnote 1)				
HP Localization Kit	•	•	•	•
Software				
Remote Graphics Software	•	•	•	•
All Supported Processors				
Hyperthreading				
Single-Core Opteron	•	•	•	•
Dual-core Opteron (1.8GHz, 2.0GHz, 2.2GHz, 2.4GHz, 2.6GHz, and 2.8GHz)	•	•	•	•
Quad-core Opteron (2.1GHz, 2.2GHz, 2.3GHz, 2.4GHz, 2.5GHz, 2.7GHz, 2.8GHz, 2.9GHz, 3.1GHz)		9	9	9
Graphics Card (Video Card) (See footnote 2)				
No Graphics Card	•	•	•	•
NVIDIA Quadro NVS 285	•	•	•	•
NVIDIA Quadro NVS 290		•	•	•
NVIDIA Quadro NVS 295		•	•	•
NVIDIA Quadro NVS 450		•	•	•
NVIDIA Quadro FX370		•	•	•
NVIDIA Quadro FX380		•	•	•
NVIDIA Quadro FX560	•	•	•	•
NVIDIA Quadro FX570		•	•	•
NVIDIA Quadro FX580		•	•	•
NVIDIA Quadro FX1500	•	•	•	•
NVIDIA Quadro FX1700		•	•	•
NVIDIA Quadro FX1800		•	•	•
NVIDIA Quadro FX3500	•	•	•	•
NVIDIA Quadro FX3700	•	•	•	•
NVIDIA Quadro FX3800		•	•	•
NVIDIA Quadro FX4500	•	•	•	•
NVIDIA Quadro FX4600	7	7	7	•
NVIDIA Quadro FX4800		•	•	•
NVIDIA Quadro FX5500	•	•	•	•
NVIDIA Quadro FX5600	•	•	•	•
NVIDIA Quadro FX5800		•	•	•
G-Card (to be used with the FX4500)	•	•	•	•
SLI Graphics Connector				
ATI v3300 PCIe				
ATI v3350 PCIe				
ATI v7200 PCIe				
ATI v3700 PCIe - Single Card Supported		•	•	•
ATI v5600 PCIe				
ATI v5700 PCIe - Single Card Supported		•	•	•
ATI v7700 PCIe				
ATI v7750 PCIe - Single Card Supported		•	•	•
System RAM				
Minimum (GB)	1GB	1GB	1GB	1GB
Maximum (GB)	64GB	64GB	64GB	64GB
Hard Disks				
All Supported SAS Disk Drives	4	4	4	4
All Supported SSD Disk Drives				
All Supported SATA Disk Drives	4	4	4	4
All Supported USB Drive Keys	•	•	•	•
Network Cards (no modem support)				
Broadcom 5751 PCIe	•	•	•	•
Intel Pro 1000 GT Gigabit PCI	•	•	•	•
Onboard Components				
Onboard LAN eth0 - Nvidia	•	•	•	•
Onboard LAN eth1 - Nvidia	•	•	•	•
Onboard Audio	6	•	•	•
Onboard SATA/SAS RAID	5	5	5	5
Add Ons				
IEEE 1394 A/B PCI Card				
Creative Sound Blaster Audigy 2 ZS				
LSI 8344		5	5	5
LSI 8888 ELP		5	5	5
Removable CD/DVD Media				
HP 48x CD-ROM Drive	•	•	•	•
HP 16x DVD-ROM Drive	•	•	•	•
HP 48x DVD/CDRW Combo	•	•	•	•
HP 16x dual-layer DVD+RW	3	3	3	3
HP BD-RE (Writer)	•	•	•	•
Input/Output Devices (no spaceball support)				
HP 3-Button Mouse, PS/2	•	•	•	•
HP Scroll Mouse, PS/2	•	•	•	•
HP Optical Scroll Mouse, USB	•	•	•	•
HP Standard Keyboard, USB/PS2	•	•	•	•
TPM Module/ Smart Card				
22 in 1 Card Reader				
HP Printers	8	8	8	8
All Supported Monitors	•	•	•	•

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw9400 (substitute correct platform name); Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'.

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 5 - Hardware RAID is supported using the LSI 8344 ELP (RAID 0,1, 5 SAS only), LSI 8888 ELP (RAID 0,1, 5 SAS only), and Onboard SAS RAID (RAID 0,1). SATA RAID is not supported.

footnote 6 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw9400. For RHEL4, use the built-in ALSA Sound Support.

footnote 7 - The Nvidia graphics driver works very well. Vesa driver has issues with this card.

footnote 8 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 9 - Nvidia Drivers (169.17/173.14/177.61) do not work on RHEL4.x and 5.x 32bit. Nvidia Drivers (169.17/173.14/177.61) will work on RHEL4.x and 5.x 64bit. Nvidia Driver 177.82 or newer will work on both RHEL4.x and RHEL5.x (32/64bit).