

Archive Linux Hardware Matrix

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), SUSE Linux Enterprise Desktop (SLED), and Ubuntu LTS.

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 website to verify certification for the OS release you are planning to use. Here are the sites for distributions covered in this document:

SUSE: <https://www.suse.com/yessearch/Search.jsp>

Red Hat: <http://hardware.redhat.com>

Ubuntu: <http://www.ubuntu.com/certification/desktop>

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 certified 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, and some missing functionality might be added. 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 release shown in the column header and the 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 website or an open source community site. Or, as mentioned, the support might have been added in a subsequent release in the same OS stream, or an available update.

* A number represents a reference to a footnote. Footnotes are located at the bottom of the page.

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Red Hat is a registered trademark of Red Hat, Inc. in the United States and other countries.

First Edition: April 2016

864703-001

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)	RHEL WS 4.6 or later (x86 & EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**.

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.hpip.net>.

Linux Hardware Matrix for HP Workstations

HP xw6600 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)	RHEL WS 4.6 or later (x86 & EM64T)	RHEL 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	•	•	•
ATI v3700 PCIe			
ATI v5600 PCIe			
ATI v5700 PCIe			
ATI v7700 PCIe			
ATI v7750 PCIe			
ATI RV560 PCIe			
System RAM			
Minimum (MB)	512	512	512
Maximum	32GB	32GB	32GB
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 RAID	5	5	5
Add Ons			
LSI 3041E SAS Card	•	•	•
IEEE 1394 PCI Card			
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	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/xw6600>. Under **Download options**, select **Get drivers, software & firmware**.

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 more info about Linux driver support for HP printers, please visit <http://www.hpip.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)	RHEL WS 4 U5 or later (x86 & EM64T)	RHEL 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 PCIe/express	•	•	•
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>. Under **Download options**, select **Get drivers, software & firmware**.

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 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)	RHEL WS 3 U8 or later (x86 & EM64T)	RHEL WS 4 U5 or later (x86 & EM64T)	RHEL 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 Intl 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the "Install Guide for Red Hat Linux on HP Linux Workstations", select **Manuals** and then select **Setup and install - general**.

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 HPKIL (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.hpilp.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).

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)	RHEL WS 3 U7 or later (x86)	RHEL WS 3 U7 or later (EM64T)	RHEL WS 4 U5 or later (x86 & EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the "Install Guide for Red Hat Linux on HP Linux Workstations", select **Manuals** and then select **Setup and install - general**.

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 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)	RHEL WS 3 U7 or later (x86)	RHEL WS 3 U7 or later (EM64T)	RHEL WS 4 U5 or later (x86 & EM64T)	RHEL 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	•	•	•	•
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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the "Install Guide for Red Hat Linux on HP Linux Workstations", select **Manuals** and then select **Setup and install - general**.

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 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)	RHEL WS 4.6 or later (x86 & EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the 'Install Guide for Red Hat Linux on HP Linux Workstations', select **Manuals** and then select **Setup and install - general**.

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.hpip.net>

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)	RHEL WS 3 U8 or later (x86)	RHEL WS 3 U8 or later (EM64T)	RHEL WS 4 U5 or later (x86 & EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the "Install Guide for Red Hat Linux on HP Linux Workstations", select **Manuals** and then select **Setup and install - general**.

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 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)	RHEL WS 3 U7 or later (x86)	RHEL WS 3 U7 or later (EM64T)	RHEL 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>. Under **Download** options, select **Get drivers, software & firmware**. To locate the "Install Guide for Red Hat Linux on HP Linux Workstations", select **Manuals** and then select **Setup and install - general**.

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 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)	RHEL WS 3 U7 or later (x86)	RHEL WS 3 U7 or later (EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the 'Install Guide for Red Hat Linux on HP Linux Workstations', select **Manuals** and then select **Setup and install - general**.

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 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)	RHEL WS 3 U7 or later (x86)	RHEL WS 3 U7 or later (EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the 'Install Guide for Red Hat Linux on HP Linux Workstations', select **Manuals** and then select **Setup and install - general**.

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 is 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 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 xw6200 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)	RHEL WS 3 U7 or later (x86)	RHEL WS 3 U7 or later (EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the 'Install Guide for Red Hat Linux on HP Linux Workstations', select **Manuals** and then select **Setup and install - general**.

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 is 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. 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 xw4200 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)	RHEL WS 3 U7 or later (x86)	RHEL WS 3 U7 or later (EM64T)	RHEL 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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the 'Install Guide for Red Hat Linux on HP Linux Workstations', select **Manuals** and then select **Setup and install - general**.

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 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	9
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 conjunction with Red Hat CDs (purchase separately) to add customizations for HP hardware. Check for updated ISO images- See footnote 3. "HP

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>. Under **Download options**, select **Get drivers, software & firmware**. To locate the 'Install Guide for Red Hat Linux on HP Linux Workstations', select **Manuals** and then select **Setup and install - general**.

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 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)	RHEL WS 3 U1 or	RHEL WS 3 pre-	Red Hat 9	Red Hat 8	Red Hat 7.3	Red Hat 7.3 pre-	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	8.7	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/xw8000>. Under **Download options**, select **Get drivers, software & firmware**. To locate the "Install Guide for Red Hat Linux on HP Linux Workstations", select **Manuals** and then select **Setup and install - general**.

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 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)	RHEL WS 3 U1 or later	RHEL 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)							
Hyperthreading	•	•	•	•	•	8	•
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	9
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/xw6000>. Under **Download options**, select **Get drivers, software & firmware**. To locate the 'Install Guide for Red Hat Linux on HP Linux Workstations', select **Manuals** and then select **Setup and install - general**.

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.