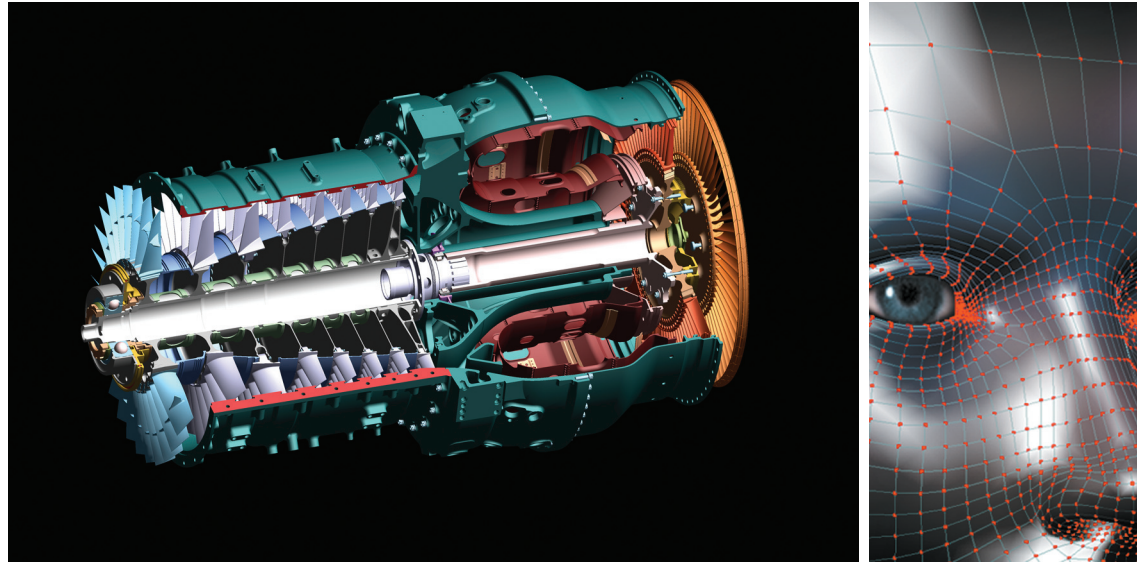


PCI Express Graphics Quick Reference Card

For Intel® Xeon® processor-based HP Workstations
(HP xw6400, HP xw8400)



Through our Leadership Graphics Program, HP workstations provide the fastest access to the best graphics in the industry at varying performance and price points. Our 20 years of graphics expertise combined with strong vendor relationships ensure their graphics and our workstations are stable and powerful combinations.

Images (left to right) courtesy of Aaron Reid; Films Action

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For more information, visit www.hp.com/workstations

4AA0-5913ENW 06/2006



Graphic options for HP workstations with PCI Express (PCIe)

| | NVIDIA Quadro NVS 285 | NVIDIA Quadro NVS 440 | ATI FireGL V3300 | NVIDIA Quadro FX 560 | NVIDIA Quadro FX 1500 | ATI FireGL V7200 | NVIDIA Quadro FX 3500 | NVIDIA Quadro FX 4500 |
|--|---|---|---|--|--|--|---|--|
| | Professional 2D graphics in a low-profile card | Up to quad monitor support from a single PCIe card, with the capability of 2 cards per system | Performance leading graphics at an entry-level price | Entry-level 3D graphics with an HD capability | Mainstream graphics with high-end precision, power, and programmability | The ultimate price/performance leader for engineers and artists | Powerful 3D computing with programmability and uncompromised performance & features | Ultimate 3D visualization with the latest generation graphics processing power; opt. G-sync card available |
| Supported HP workstations | xw6400, xw8400 | xw6400 | xw6400, xw8400 | xw6400, xw8400 | xw6400, xw8400 | xw6400, xw8400 | xw6400, xw8400 | xw6400, xw8400 |
| Supported operating systems | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS | Windows XP Professional or x64 Edition, Red Hat Enterprise Linux WS |
| Graphics memory | 128 MB | 256 MB between 2 GPU cores | 128 MB | 128 MB | 256 MB | 256 MB | 256 MB | 512 MB |
| SLI for NVIDIA Quadro | No | No | No | No | No | No | Yes | Yes |
| Memory type | DDR | DDR | DDR | DDR | DDR | DDR | GDDR3 | GDDR3 |
| Texture memory | Unified w/FB | Unified w/FB | Unified w/FB | Unified w/FB | Unified w/FB | Unified w/FB | Unified w/FB | Unified w/FB |
| Texture memory at 1280 x 1024 resolution | NA | NA | 112 MB | 112 MB | 112 MB | 112 MB | 240 MB | 496 MB |
| Number of displays supported | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| Digital video output support | yes | yes | yes | yes | yes | yes | yes | yes |
| Connectors | 1 DMS-59 connector with dual VGA cable and dual DVI cable kit | dual DMS-59 connector with dual VGA cable, dual DVI cable kit | 2 DVH with VGA adapters | 2 DVH (1 dual link) with VGA adapters, S-video and component HD-out | 2 dual link DVH with VGA adapters, S-video and component HD-out | 2 dual link DVH with VGA adapters and one 3-pin mini DIN stereo output | 2 dual link DVH with VGA adapters and one 3-pin mini DIN stereo output | 2 dual link DVH with VGA adapters and one 3-pin mini DIN stereo output |
| Display configurations | VGA+VGA, Digital + Digital | Quad VGA, Dual VGA+Dual Digital, Quad Digital | VGA+VGA, VGA + Digital, Digital + Digital | VGA+VGA, VGA + Digital, Digital + Digital, VGA or Digital + S-Video, VGA or Digital + HD-out | VGA+VGA, VGA + Digital, Digital + Digital, VGA or Digital + S-Video, VGA or Digital + HD-out | VGA+VGA, VGA + Digital, Digital + Digital | VGA+VGA, VGA + Digital, Digital + Digital | VGA+VGA, VGA + Digital, Digital + Digital |
| Max. VGA display resolution | 2048 x 1536 | 2048 x 1536 | 2048 x 1536 | 2048 x 1536 | 2048 x 1536 | 2048 x 1536 | 2048 x 1536 | 2048 x 1536 |
| Max. digital display resolution | 1920 x 1200 | 1920 x 1200 | 1600 x 1200 | 3840 x 2400 (single) | 3840 x 2400 (dual) | 3840 x 2400 (dual) | 3840 x 2400 (dual) | 3840 x 2400 (dual) |
| Host interface | PCIe | PCI | PCIe | PCIe | PCIe | PCIe | PCIe | PCIe |
| Number of slots required | 1 PCIe | 1 PCIe x16 | 1 PCIe x16 | 1 PCIe x16 | 1 PCIe x16 | 1 PCIe x16 | 1 PCIe x16 | PCIe x16 + adjustment slot |
| OpenGL ISV certifications | no | no | yes | yes | yes | yes | yes | yes |
| HW double buffered overlay | no | no | yes | yes | yes | yes | yes | yes |
| Vertex and pixel shaders | no | no | yes | yes | yes | yes | yes | yes |
| Full scene AA (4X supersampled) @ 1280 x 1024 | no | no | yes | yes | yes | yes | yes | yes |
| Stereo viewing support | no | no | no | no | yes | yes | yes | yes |
| HW accumulation buffer | no | no | no | no | yes | no | yes | yes |
| Multiple color look up tables | no | no | no | no | no | no | yes | yes |