



## HP ProLiant xw460c Blade Workstation

### Overview

With dual-core Intel® Xeon™ 5100 sequence processors and features found in desktop workstations, the HP ProLiant xw460c Blade Workstation combines power-efficient computing and high density with expanded memory for maximum performance.

The HP BladeSystem c7000 enclosure supports up to 16 xw460c workstations, each with dual-core Intel Xeon processors, DDR2 fully buffered DIMMs, serial-attached SCSI (SAS) hard-drives, and a workstation graphics adapter along with a preinstalled operating system and HP Remote Graphics software. The result is a high-performance system ideal for a full range of professional applications and user needs. In these small form factors, the xw460c features RAID capability and enhanced, remote Lights-Out management for datacenter computing.

The xw460c is the foundation for HP Blade Workstation Solution, the next-generation workstation infrastructure for enterprise and large companies seeking data center security and control while delivering workstation class experience to its users without location boundaries.

### Features

With the combination of the workstation graphics adapter and HP Remote Graphics Software, the xw460c workstation provides data center workstation computing without boundaries.

- Performance
  - Up to two, dual-core Intel Xeon 5100 series processors with 4MB Level-2 cache and 1333MHz front-side bus provide higher-performance to applications.
  - PC2-5300 DDR2 memory and FB-DIMM allow both high performance and high-bandwidth memory. Eight memory slots support maximum 16GB with 2x2GB DIMM memory kit – soon up to 32GB with 2x4GB DIMM memory kit.
  - NVIDIA Quadro FX540M graphics adapter with 128MB dedicated graphics memory combined with HP Remote Graphics Software provides workstation-class graphics experience to the professional users.
  - Serial-attached SCSI (SAS) hard drives combined with HP Smart Array controller provides fast access to data and increased storage bandwidth. Small form factor 2.5-inch drives provide versatile configuration and deployment options with only a small foot print.
- Management

- Integrated Lights Out 2 Management for unprecedented, high-speed management which includes virtual KVM and graphical remote console at no additional cost.
- New Systems Insight Manager Thermal Logic Cooling – Instant thermal dashboard for system diagnostics and control of power and cooling.
- Smart power and thermal management now available with HP Power Regulator for policy based power management. Also offering, new industry exclusive power meter reporting capability to log actual power usage.
- Options
  - Second processor add-on option kit allows scaling up of system performance by enabling a total of 4-cores with a dual-processor configuration.
  - System memory size can be scaled up easily with optional memory kits to increase overall performance by memory hungry applications and model data. With the hardware capability of a maximum 32GB physical memory, future expansion beyond the 4GB limit of 32-bit operating systems is not a problem.
  - Add-on storage support of up to two high-performance, small-form-factor serial-attached SCSI (SAS) disk drives available in 72GB and 146GB capacity. HP SmartArray E200i controller allows use of RAID 0 and RAID 1 configuration with the drives.
- Graphics
  - NVIDIA Quadro FX540M graphics adapter brings proven workstation graphics capability to the blade environment. FX540M provides professionals with high-performance, multi-display (up to four) capability and high-resolution 2D/3D graphics features to operate graphics-intensive applications.
  - An innovative remote access technology, HP Remote Graphics Software (RGS), provides the essential, seamless connection to access the xw460c blade workstation from a remote location. With its architecture and compression technology, HP RGS provides the level of interactive performance and image-quality that workstation users have come to expect.

#### **Ideal for ...**

- Financial (Securities Trading)
  - Blade-driven computing keeps data securely in the data center;
  - Multi-blade and multi-site capabilities dramatically improve business continuity;
  - HP Remote Graphics Software enables interactive performance for multi-display 2D/3D graphics and video;
  - Blade Workstation greatly enhances user-desk work environment by moving the compute power and its heat and noise into the data center.
- Command & Control, Imaging, Scientific Research and Defense
  - Blade-driven computing keeps data securely in the data center;
  - Multi-blade and multi-site capabilities dramatically improve operational continuity;

- Data center connectivity delivers workstation power to the client on-demand;
- Real-time collaboration enables teams to see and share information.

## Specifications

xw460c	
Available Processors	Intel Xeon 5150 processor, 2.66GHz, 4MB cache, 1333MHz FSB, dual-core processor Intel Xeon 5140 processor, 2.33GHz, 4MB cache, 1333MHz FSB, dual-core processor Intel Xeon 5120 processor, 1.86GHz, 4MB cache, 1066MHz FSB, dual-core processor Intel Xeon 5110 processor, 1.60GHz, 4MB cache, 1066MHz FSB, dual-core processor
Processor Cores	Dual
Processor Cache	1x4MB Level 2 cache
Multiprocessor	2
Max front side bus speed	1333/1066 MHz
Maximum Quantity Per 42U Rack	64
Memory Type	PC2-5300 DDR2, Fully-Buffered, 667MHz
Standard Memory	1, 2 or 4 GB Depending on model, standard memory size is different. All standard memory comes with 2 DIMM modules.
Max Memory	16 GB 32 GB when 2x4GB FB-DIMM memory kit is supported
Memory Protection	
Storage Type	Non-hot plug SFF SAS
Max Internal Drives	2Up to 2 hard drives of 72GB or 146GB 10K SFF SAS drive
Removable Media Bays	0
Expansion Slots	0
Storage Controller	HP Smart Array E200i with standard 64MB cache
Form Factor	Blade
Rack Height	Half-height
Networking	Two, integrated single port NC373i Multifunction Gigabit
Remote Management	Integrated Lights-Out 2 (iLO2) Standard Blade Edition

Redundant Power Supply	Rack-centralized redundant power sub-system with hot-plug power supplies
Warranty - year(s) (parts/labor/onsite)	3/3/3
Fibre Channel SAN Support	Not available
<b>Processor and Memory</b>	
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<b>Storage</b>	
Storage Type	Non-hot plug SFF SAS
Max Internal Drives	2Up to 2 hard drives of 72GB or 146GB 10K SFF SAS drive
Removable Media Bays	0
Expansion Slots	0
Storage Controller	HP Smart Array E200i with standard 64MB cache
<b>Deployment</b>	
Form Factor	Blade

Rack Height	Half-height
Networking	Two, integrated single port NC373i Multifunction Gigabit
Remote Management	Integrated Lights-Out 2 (iLO2) Standard Blade Edition
Redundant Power Supply	Rack-centralized redundant power sub-system with hot-plug power supplies
Redundant Fans	
Warranty - year(s) (parts/labor/onsite)	3/3/3
<b>Fibre Channel</b>	
Fibre Channel SAN Support	Not available

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