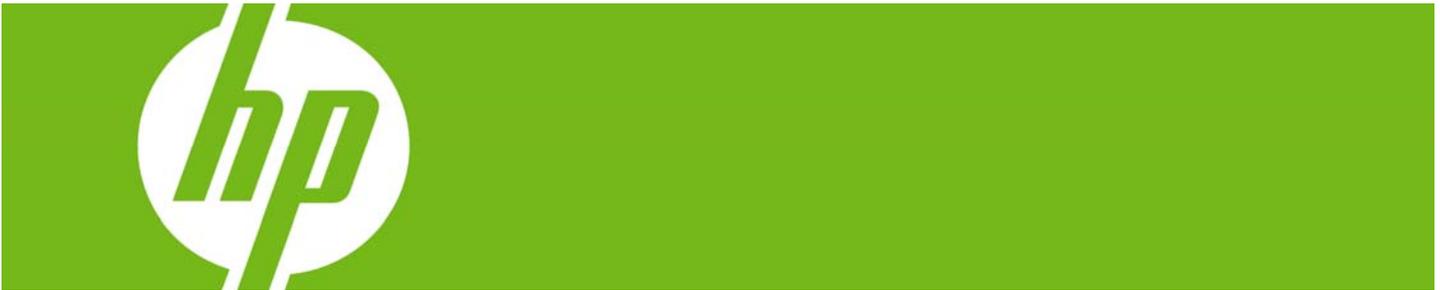


HP xw6200 Workstation Storage Options

Mini White Paper



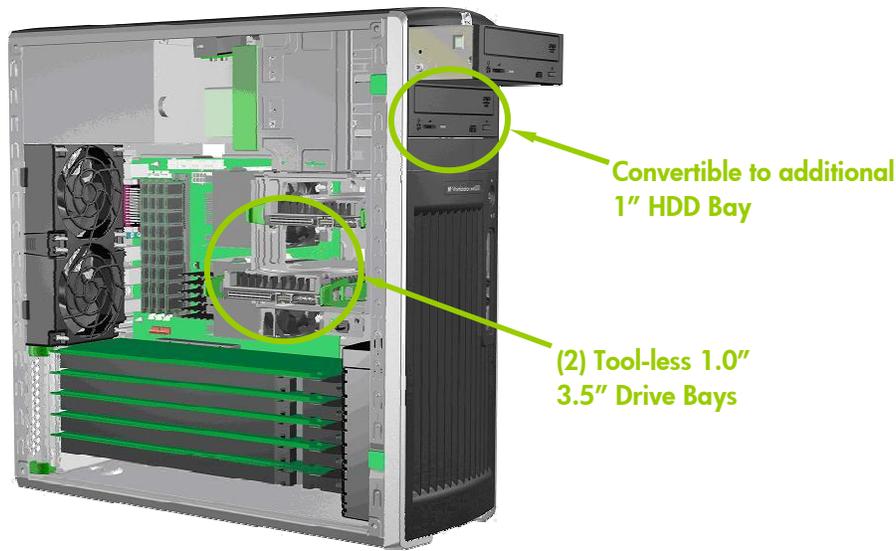
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Introduction

The HP xw6200 Workstation offers flexible storage options and supports integrated SATA RAID and optional SCSI RAID.

Key Product Features

Figure 1. HP xw6200 Workstation Components



The xw6200 supports (2) tool-less internal 1" HDD slots and (2) 5.25" tool-less optical bays. One of the 5.25" bays can be converted to additional 1" internal HDD bay using the optional DY659A bracket. The xw6200 can support up to 1.5TB of SATA storage (with the Adaptec 1420SA controller), and up to 900 GB of SCSI storage.

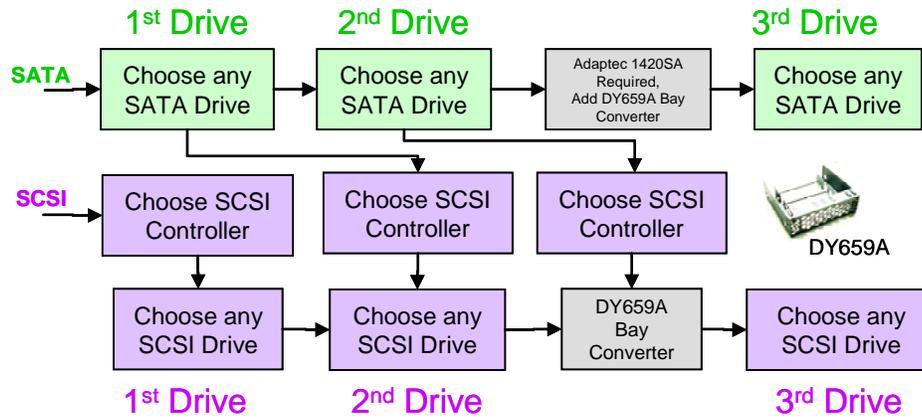
The current HDD choices are shown below:

SATA 7200	SATA 10K	SCSI 10K	SCSI 15K
80 GB (3Gb/s)	74 GB (1.5Gb/s)	73 GB	36 GB)
160 GB (3Gb/s NCQ)		146 GB	73 GB
250 GB (3Gb/s)		300 GB	
500 GB (3Gb/s))			

The xw6200 supports many combinations of SATA and SCSI drives for both factory integrated and After Market Optional (AMO) storage. The supported choices are shown in the flowchart, starting with the selection of SATA or SCSI for the first drive. The xw6200 has an integrated SATA controller, but a SCSI controller must be added before any SCSI drives are added. Current choices are the DZ539AV (factory integrated only, no external SCSI connector), DZ540AV SCSI RAID, DZ554A, and

AA850A single-channel SCSI U320 controllers. The AA850 offers RAID support. As indicated, it is possible to start off with a SATA drive and add a SCSI controller and 1 or 2 SCSI drives.

Figure 2. Supported Drive Combinations



RAID

The xw6200 has an integrated Intel ICH5R SATA 1.5 Gb/s RAID controller that supports RAID 0 (Striping, for performance) and RAID 1 (Mirroring, for fault tolerance). The Adaptec 1420SA controller enables up to (3) SATA 3Gb/s drives. Integrated P/N is ED091AV and AMO is ED090AA. For SCSI AMO, the AA850A provides support for various RAID levels including 0 and 1. In all cases, it is strongly recommended that disks being RAIDed are identical. Also note that using RAID 1 halves the amount of available storage. More details on the personal Workstation RAID solutions can be found below.

Cabling

For Factory-integrated storage, all required cabling is provided. For xw6200 AMO storage, the DY662A SATA cable should be ordered with each SATA drive ordered. A DY661A 3-Port SCSI cable should be ordered with any SCSI controller if internal HDDs will be connected to the SCSI controller. For those customers who desire to install their own EIDE drive(s) the DY660A EIDE Cable Kit is provided as an AMO item.

Summary

The xw6200 provides a large amount of highly-configurable storage in a small chassis.

Related Resources

The following documents also provide additional information about RAID configurations and can be located by visiting www.hp.com/support/xw6200_manuals and selecting the **White papers** quick jump link.

- *Setting up SATA RAID on the xw8200/xw6200 Mini White Paper*
- *Workstation RAID Primer Mini White Paper*

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