

# PC Configurations Guidelines for the HP xw8000 Workstation

The following PC system, PCI boards, and system connections have been qualified for use with Avid Adrenaline DNA:

- HPT Workstation xw8000 dual 3.2, 3.06, 2.8 GHz Intel® XeonT
- NVIDIA® Quadro®4 980 XGL graphics card or NVIDIA Quadro FX 1100 graphics card and integrated 1394 port. For optimum performance, the NVIDIA Quadro FX 1100 graphics card is recommended.
- ATTO 3300 and 3305 Fibre Channel host adapters
- Alacritech® Gb Ethernet card
- 1 GB memory
- SCSI – the only supported SCSI connections are the two SCSI channels at the rear of the HP xw8000 workstation. They are from the Ultra 320 SCSI controller on the system board. The HP xw8000 external SCSI expansion kit (Avid P/N 0010-06332-01 or HP P/N AA857A) must be installed to obtain access to these two channels at the rear of the system.
- FireWire – either one of the two integrated FireWire connections on the HP xw8000 system or a FireWire PCI board can be used for connecting the Avid Adrenaline DNA to the system. However, specific configuration rules must be followed.

Avid has qualified the integrated FireWire ports in the HP xw8000 for connection to Avid Adrenaline DNA. However, if it is desired to use the integrated Gbit Ethernet for connection to Avid Unity LANshare EX, then a 1394 add-in card must be installed into a PCI-X slot for connection to the Avid Adrenaline DNA (see slot configurations for the HP xw8000 Workstation, below). To support this, Avid has qualified the ADS PYRO PCI 64 (PYRO part number API-311) PCI FireWire card for use with the HP xw8000 workstation. Only universal PCI cards (can use 3.3v) may be installed in PCI-X slots.

## Slot Configurations for the HP xw8000 Workstation

The HP xw8000 workstation has three separate PCI bus segments. This allows for placement of PCI boards into specific PCI bus segments in the interest of optimizing bus utilization and performance. However, integrated devices such as the FireWire, Gb Ethernet, and SCSI controllers are also connected to particular

PCI segments and can affect the bandwidth available to add-in cards in those segments.

## PCI Segments

The following PCI Segment table defines which PCI slots and system connections are assigned to each PCI bus segment. The segment numbers are arbitrarily assigned.

Slots	Segment	Segment Features	Other Shared Segment Connections
AGP	None	None	None
Slot 1	Segment 1	32 bit, 33 MHz, 5v	Integrated Gb Ethernet and integrated FireWire ports are both on this segment
Slot 2			
Slot 3	Segment 2	64 bit, 133 MHz, 3.3v	No shared system connections
Slot 4	Segment 3	64 bit, 100 MHz, 3.3v	Integrated Ultra 320 SCSI controller is on this segment
Slot 5			

*1 If the integrated Gb Ethernet port is used for connection to Avid Unity LANshare EX, then the integrated FireWire ports cannot be used for connection to Avid Adrenaline DNA.*

Avid recommends the following slot locations for specific PCI cards in the HP xw8000 workstation:

**Slot 1** – This slot is not recommended for use as it is on the same segment as the integrated Gb Ethernet and integrated FireWire controllers.

**Slot 2** - This slot is not recommended for use as it is on the same segment as the integrated Gb Ethernet and integrated FireWire controllers.

**Slot 3** - WARNING: Do not install an ATTO 3300 or 3305 Fibre Channel board in this slot or data loss or corruption could occur.

If the integrated Gb Ethernet is used for connection to LANshare EX, a supported FireWire Universal PCI card must be installed in this slot for connection to Avid Adrenaline DNA. Alternatively, and to reduce Ethernet CPU overhead, an Alacritech Gb Ethernet card may be installed in this slot for connection to LANshare EX and one of the integrated FireWire ports used for connection to Avid Adrenaline DNA.

**Slot 4** – Not recommended for use; use Slot 5 for bus segment 3.

**Slot 5** - This slot can contain an ATTO 3300 or 3305 Fibre Channel card. The ATTO Fibre Channel card can be used for local storage or for Avid Unity MediaNetwork. The two SCSI connections at the rear of the system may also be used coincident with Fibre Channel support.

## Storage

Avid supports the use of specific SCSI and Fibre Channel devices on the systems. Please refer to the appropriate platform configuration guide for detailed configuration rules, including the population of add-in cards.

## SCSI Support

If you need SCSI support in the HP xw8000 system, you should use the two SCSI channels at the rear of the system. The channels connect to a dual U320 SCSI controller on the system board. An HP xw8000 expansion kit must be installed in order for these SCSI channels to be available externally. You can use the two SCSI connectors at the rear of the system and a Fibre Channel card in the HP xw8000 system at the same time.

## Fibre Channel Support

Avid provides support for local storage or Avid Unity MediaNetwork using the following Fibre Channel host adapters in the HP xw8000 system:

- ATTO 2-Gb optical Fibre Channel (Model 3300, single channel)
- ATTO 2-Gb copper Fibre Channel (Model 3305, single channel)

## FireWire Support

You can install a FireWire add-in board for use with FireWire drives on the HP

xw8000. To use an add-in FireWire board in the HP xw8000, it must be a “universal” PCI card and not a +5v only card.

## Ethernet Support

Connection to Avid Unity LANshare EX with the HP xw8000 is supported using the integrated Gb Ethernet controller provided that an add-in 1394 controller is installed for connection to the Avid Adrenaline DNA (refer to the HP xw8000 Configuration Guide for additional details).

Documentation for connecting storage devices ships with the devices if they are purchased from Avid. Striping information can be found on the [Avid Knowledge Center](#).

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