

# Avid Xpress<sup>®</sup> Pro and Avid Adrenaline<sup>®</sup> Configuration<sup>™</sup> Guidelines for the HP xw8200 Workstation<sup>®</sup>

The following describes the configuration requirements for Avid Xpress Pro, Avid Media Composer Adrenaline, and Avid NewsCutter<sup>®</sup> Adrenaline on the HP xw8200 Workstation:

- HP xw8200 Workstation, Intel<sup>®</sup> Xeon<sup>™</sup> Avid Xpress Pro: Single or Dual CPU, 3.2GHz or faster Avid Adrenaline: Dual CPU only, 3.4GHz or faster
- NVIDIA<sup>®</sup> Quadro<sup>®</sup> FX1300 or FX1400 graphics cards
- 160GB or larger SATA Boot Drive
- System Memory Avid Xpress Pro: 1GB minimum, 1.5GB recommended Avid Adrenaline: 2GB minimum
- ATTO 3300 and 3305 Fibre Channel host adapters
- Alacritech<sup>®</sup> Gb Ethernet card if desired for connection to an Avid Unity<sup>™</sup> PortServer or LANshare.
- SCSI – The two integrated SCSI channels on the HP xw8200 workstation are supported. They are from the Ultra 320 SCSI controller on the system board. The HP xw8200 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 xw8200 system or a FireWire PCI board can be used for connecting the Avid Mojo<sup>®</sup> or Avid Adrenaline to the system. However, specific configuration rules must be followed.

Avid has qualified the integrated FireWire ports in the HP xw8200 for connection to Avid Mojo or Avid Adrenaline. However, if it is desired to use the integrated Gbit Ethernet for connection to an Avid Unity PortServer or LANshare, then a FireWire add-in card must be installed into a PCI-X slot for connection to the Avid Mojo or Avid Adrenaline (see slot configurations for the HP xw8200 Workstation, below). To support this, Avid has qualified the ADS PYRO PCI 64 (PYRO part number API-311) and the SIIG FireWire 3-Port PCI i/e, part #NN-440012 PCI FireWire cards for use with the HP xw8200 workstation. Only *universal* PCI cards (can use 3.3v) may be installed in PCI-X slots.

## Slot Configurations for the HP xw8200 Workstation

The HP xw8200 workstation has multiple 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 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.

The following table, and information following the table, provides an explanation of what each PCI segment is, which PCI slots are contained in each PCI segment, and how the segments are affected by the other connections on the system.

## HP xw8200 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.

Slot	Segment	Segment Features	Other Shared Segment Connections
All slots listed, top to bottom			
Slot 1	Segment 1	PCI 32-bit, 33MHz, 5v	Slot 3, integrated Gbit and FireWire
Slot 2	Segment 2	PCI-Express x16 graphics	None
Slot 3	Segment 1	PCI 32-bit, 33MHz, 5v	Slot 1, integrated Gbit and FireWire
Slot 4	Segment 3	PCI-Express x8	None
Slot 5	Segment 4	PCI-X 64-bit, 133MHz	None
Slot 6 Slot 7	Segment 5	PCI-X 64-bit, 100MHz	Integrated dual U320 SCSI controller

Note: *If the integrated Gb Ethernet port is used for connection to Avid Unity PortServer or LANshare, then the integrated FireWire ports cannot be used for connection to Avid Mojo or Avid Adrenaline.*

**Avid recommends the following slot locations for cards in the HP xw8200 workstation. All slots (bulkhead positions) are included in the list and they are listed from top to bottom:**

**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 contains the PCI-Express Graphics Board.

**Slot 3:** This slot is not recommended for use as it is on the same segment as the integrated Gb Ethernet and integrated FireWire controllers.

**Slot 4:** This slot is not utilized.

**Slot 5** - If the integrated Gb Ethernet is used for connection to an Avid Unity PortServer or LANshare, a supported FireWire Universal PCI card must be installed in this slot for connection to Avid Mojo or Avid Adrenaline. This slot may also be populated with a second FireWire interface for connection to FireWire drives. **WARNING: Do not install an ATTO 3300 or 3305 Fibre Channel board in this slot or data loss or corruption could occur.**

**Slot 6** - 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.

**Slot 7** - To reduce Ethernet CPU overhead, an Alacritech Gb Ethernet card may be installed in this slot for connection to an Avid Unity PortServer or LANshare. One of the integrated FireWire ports is then used for connection to Avid Mojo or Avid Adrenaline.

## **SCSI Support**

If you need SCSI support in the HP xw8200 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 xw8200 expansion kit must be installed in order for these SCSI channels to be available externally.

## **Fibre Channel Support**

Avid provides support for local storage or Avid Unity MediaNetwork using the following Fibre Channel host adapters in the HP xw8200 system:

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

## **Ethernet Support**

Connection to an Avid Unity PortServer or LANshare with the HP xw8200 is supported using the integrated Gb Ethernet controller provided that an add-in FireWire controller is installed for connection to the Avid Mojo or Avid Adrenaline.

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.

