

Supported Systems

- Avid HDX, HD Native and HD Accel PCI cards
- Pro Tools versions 8.5 and above (including 10.3)
- Supported Mac OS as per Avid Compatibility requirements

IMPORTANT - THIS VERSION SUPPORTS 2 INTERFACES PER PCI CARD PORT. Additional interfaces must be connected to another Avid PCI card port.

New Features

- 1. X-HD equipped X-Series and Rosetta Series interfaces now appear as a Digital HD I/O in Pro Tools software.
- 2. Avid HDX and HD Native PCIe cards now officially supported with X-Series and Rosetta Series interfaces (up to two interfaces per port).

Update X-HD Firmware

Please CAREFULLY follow these instructions to update your X-HD card. Skipping a step often results in a failed update!

Items Required

- MIDI interface + any drivers required for the interface.
- X-HD v3_00 Firmware Updater
- 1. Completely disconnect the Apogee interface (AC, PCIe connection, word clock) and remove the top cover.
- 2. Connect a standard MIDI cable from your MIDI interface to the X-HD card. Be sure to connect to the X-HD card's MIDI port, and not the host interface's MIDI port.
- 3. Reset the X-Series interface by holding the DOWN button while powering on the unit; reset the Rosetta-series interface by holding down the SAMPLE RATE button while powering on the unit.
- 4. Open the X-HD v3_00 Firmware Updater.
- 5. Set **MIDI Output Port** to the port on your MIDI interface connected to the X-HD MIDI port.
- 6. Choose the desired version of X-HD firmware:

3.00 - HD I/O emulation

2.07 - 192 emulation - the version shipping since 2007.

- 7. Click Start Update after a few moments, a red and green LED should flash on the X-HD card.
- 8. A progress bar indicates progress of the update when the bar disappears, the update is done.
- 9. After the update is finished, QUIT the updater app and power-cycle the interface.
- 10. Repeat these steps for each interface to be updated.
- 11. Once all interfaces are updated, re-connect them to your Avid PCIe cards. Launch Pro Tools, choose Setup > Hardware Setup and verify that all interfaces appear and are detected as a Digital HD I/O.

Adjusting for Pro Tools Delay Compensation

As with the previous version of X-HD firmware, adjustments of Apogee interface converter latency to match the Pro Tools Delay Compensation must be done manually in the Setup > I/O > H/W Insert Delay. Note that entries must be modified for each sample rate. See the chart below for millisecond values to enter in the H/W Insert Delay fields

Sample Rate	AD/DA16X Standard Routing	AD/DAX Advanced Routing - Analog channels	AD/DAX Advanced Routing - Digital channels	Rosetta 800/200
44.1kHz	1.33 ms	1.31 ms	0.11 ms	1.30 ms
48kHz	1.22 ms	1.20 ms	0.10 ms	1.19 ms
88.2kHz	0.42 ms	0.40 ms	0.08 ms	1.14 ms
96kHz	0.38 ms	0.36 ms	0.07 ms	1.05 ms
176.2kHz	0.13 ms	0.10 ms	0.05 ms	1.02 ms
192kHz	0.12 ms	0.10 ms	0.04 ms	0.94 ms