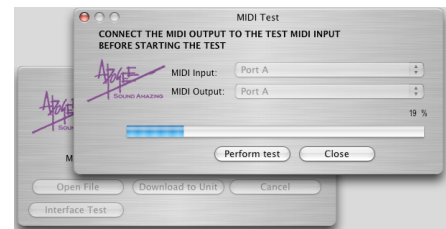


## What You'll Need

- Standard MIDI Interface, including all drivers necessary for proper operation.
- ApogeeUpdater application.
- Firmware file. Download the firmware file and the ApogeeUpdater from our website here: <http://www.apogeedigital.com/downloads/>. Firmware may also be included on the software installation CD included with your Apogee product.

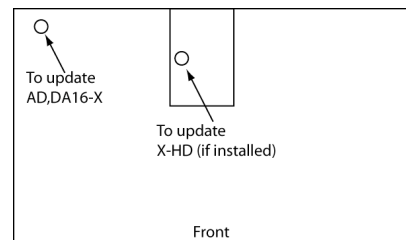
## Verify MIDI Interface

- Open the ApogeeUpdater application and click on the **Interface Test** button.
- In the **MIDI Test** window (shown at right), select a MIDI input and MIDI output from the interface to be tested. Using a standard MIDI cable, physically connect the selected output to the selected input.
- Press the **Perform Test** button. Progress of the test may be observed in the status bar and the percentage indicator above the bar. If the unit passes, the message **"MIDI Interface successful"** is displayed. If the message **"Your MIDI Interface failed the test"** is displayed, verify the proper operation of the interface with the computer and operating system.



## Make Connections

- Unplug the hardware interface's AC connection.
- Remove the top cover.
- Connect a MIDI cable from the MIDI Interface's output to the X-Symphony's MIDI Input connection, found on the card. Do *not* use the MIDI connector found on an AD or DA16X's motherboard (see the diagram at right).

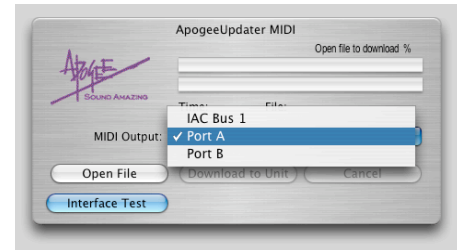


## Set Host Interface

- Disconnect the PC-32 cable (between the X-Symphony card and the Mac) and any word clock connections.
- Re-connect the hardware interface's AC Input, and turn the unit on. Please be aware that lethal voltages are present
- Set the hardware interface's clock source to **Internal** and sample rate to **44.1kHz**.

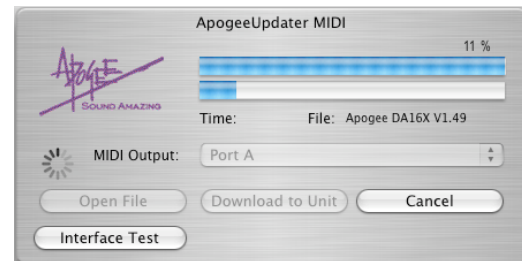
## Load Firmware into ApogeeUpdater App

- After downloading the firmware file from the link above, (or dragging it from the product software CD), unzip the file.
- In the ApogeeUpdater app, click on the **Open File** button and navigate to the unzipped file.
- Select the file and press **OPEN** (**OPEN** will remain grayed out until a valid .apo file is selected).
- Once the firmware file has been loaded, click on the **MIDI Output** drop-down selection and select the MIDI interface output connected to the X-Symphony MIDI input.



## Update!

- In the ApogeeUpdater app, press the **Download to Unit** button.
- Update progress is displayed by the two status bars; the first bar displays the erasure of old firmware, while the second bar displays the installation of new firmware. Once installation of firmware commences, two LEDs on the X-Symphony card, one red and one green, will begin to flash. Once the update is finished, only the green LED should remain lit.
- If problems are encountered, simply reload the firmware and try again.



## Verify Update

- Turn off the unit and re-connect the PC-32 cable between the X-Symphony card and the Mac.
- Turn on the unit and the Mac, and verify the update by opening Maestro and choosing **Maestro > About Maestro**. If the interface isn't recognized, it may be necessary to open the OS X utility Audio MIDI Setup, set **Properties For** to **Symphony64**, and set **Source** to **PCI Card 1 (chs 1-32)**.
- If the X-Symphony version doesn't correspond to the new version, reset the hardware interface, disconnect the PC-32 cable, and re-do the "Load Firmware" and "Update" steps until the new firmware version is successfully detected in Maestro.

## Troubleshooting

- If the download fails for any reason:
  - check MIDI cable connections,
  - re-verify the interface using the **Interface Test**.
  - verify that the hardware interface is set to **Internal** clock, **44.1kHz** sample rate.
- If **Interface Test** fails but the interface appears to otherwise operate correctly, the MIDI interface may be incompatible with the ApogeeUpdater app due to proprietary "latency reduction" data in the MIDI stream.