



CobraNet PCI Sound Card Quick Start Guide

For AudioScience ASI6416, ASI5416, ASI5408, ASI5402

1 Introduction

This document explains how to set up an ASI6416/5416/5408/5402 in a Windows PC for testing purposes. For additional information on AudioScience CobraNet sound cards, please refer to the datasheets on our website www.audioscience.com under Products → Network Products, then click on the links for the specific cards to find their datasheet links.

This document presumes a working knowledge of CobraNet. The ASI6416/5416/5408/5402 CobraNet sound cards adhere to the CobraNet standard through the use of off-the-shelf CobraNet silicon from Cirrus Logic. More detailed CobraNet information is available from Cirrus Logic's website: <http://www.cobranet.info/>.

2 What you will need

- PC running Windows, with a NIC connected to the CobraNet network via an Ethernet cable
- An ASI6416/5416/5408/5402 (here on out referred to as 'CobraNet sound card')
- CAT5/5e/6 Ethernet cable to connect the CobraNet PCI card to the CobraNet network
- Windows WAVE, WDM or Combo driver v3.10 or later
- An Ethernet switch with a spare port to connect the ASI6416/5416/5408/5402 to (the "CobraNet network")
- ASIControl (installed when you run the AudioScience driver EXE)
- Another CobraNet device on the CobraNet network to receive/transmit bundles to/from the 6416

3 Installation

1. With your PC turned off, install the CobraNet sound card. Secure the card in your PC. Connect the Ethernet port on the rear of the CobraNet sound card to a spare port on the Ethernet switch via the Ethernet cable. The PC should be connected to the same switch (via its NIC and an Ethernet cable) for the PC to be able to control the sound card's CobraNet configuration; there must be a valid network path from the PC to the CobraNet sound card.
2. Start the PC and cancel out of the Windows Found New Hardware Wizard. AudioScience driver version 3.10.05 or newer must be installed for the ASI6416; 3.12.06 or newer must be installed for the ASI5614/ASI5408/5402. Go to www.audioscience.com and under Download click on Windows Drivers. Scroll down and select the correct driver for your application – Wave, WDM or Combo (for help, look at the top of the page under "Information about our drivers"). When installing the driver you will see a screen with the following information:

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- Install Standard PCI/PCIe Driver.
 - Install Standard + Network Audio Driver.
 - Remove all driver components.

Always pick "Install Standard + Network Audio Driver" when installing an AudioScience CobraNet sound card. A reboot is required after installing the driver.

3. Start the PC and you will now see a shortcut to ASIControl on your desktop. Open ASIControl, click menu item Options, then click on Configure adapter interface. Select Local PCI(e) + Networked adapters then click OK. ASIControl will restart and an IP address will be assigned to the CobraNet sound card. Click on the CobraNet sound card in the top pane and you should see the 'topology' view of the CobraNet sound card in the left pane. Clicking on a 'node' in the left pane will bring up its information in the right pane.
4. To set up CobraNet Transmitters (outputs) and Receivers (inputs): Right click on the CobraNet sound card in the top pane of ASIControl and select Configure CobraNet. Here is where you assign bundle numbers, change latency, set persistence, etc. Remember Transmitter 1, 2, 3, etc. correlates to Receiver 33, 34, 35, etc., as per the CobraNet Routing Primer (see http://www.cirrus.com/en/pubs/appNote/CobraNet_AudioRoutingPrimer.pdf). Multicast bundle numbers range from 1-255 and Unicast bundle numbers range from 256-65279. Configure the other CobraNet device on the network to transmit/receive to/from the CobraNet sound card.

If you have any questions please e-mail us at support@audioscience.com, we will be happy to assist you. Thank you for choosing AudioScience.

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