DSPSeries USB

DSP**306**USB DSP**408**USB

Speaker Controller

Software DSPLink v2.xx Firmware v7.xx



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Quick Installation Guide May 2009

1.INTRODUCTION

This guide explains how to connect the DSP unit to the PC. A PC with Windows XP (or higher) and a free USB port is required.

2. INSTALLING THE SOFTWARE

IMPORTANT: Prior to connecting the DSP unit to the PC, the software (DSPLink) and driver (Silicon Labs) required must be installed in the PC.

Step 1: Connect the USB Pen drive supplied with the DSP to your PC. Under the folder "Software", you will find the file DSPLink-2.11.msi. Double click on it and the installation process will begin.

If you don't have the USB Pen Drive available, you can alternatively download this file from the link <u>www.master-audio.com/download/DSPLink-2.11-Setup.zip</u>

In the first screen, select "Install USB Driver"

🛃 DSPLink	
Installation Options	
✓ Install USB Driver	
	Cancel < Back Next >

Step 2: At this point you may be asked to install Microsoft's .NET Framework. This is needed by the application to run. You can find the latest .NET Framework installation file in the USB Pen Drive, under the folder Software/ DotNet Framework 3.5.

After this installation, you will be prompted for computer restart. Please proceed with it. When the computer is up again, execute the DSPLink installer again. Again, select the option "Install USB Driver".

Step 3: After the software is installed, the wizard will prompt for installing the driver. Select "Launch the CXP210x VCP Driver Installer" and click on "Finish".

Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/2003 Server/				
Silicon Laboratories CP210	 Dx VCP Drivers for Windows 2000/XP/2003 Server/ InstallShield Wizard Complete The InstallShield Wizard has successfully copied the Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/2003 Server/Vista to your hard drive. The driver installer listed below should be executed in order to install drivers or update an existing driver. ✓ Launch the CP210x VCP Driver Installer. Click Finish to complete the Silicon Laboratories CP210x VCP Drivers for Windows 2000/XP/2003 Server/Vista setup. 			
< Back Finish Cancel				

Step 4: Click on "Install" to proceed with driver installation.

🖟 Silicon Laboratories CP 210x USB to UART Bridge Driver Installer 🔀					
Silicon Laboratories Silicon Laboratories CP210x USB to UA	ART Bridge				
Installation Location:	Driver Version 5.3				
C:\Archivos de programa\Silabs\MCU\CP2	10×\				
Change Install Location	Install Cancel				

Installation is finished completely. Now the DSP unit can be connected to the PC. The next chapter follows on how to configure the connection.

3.CONNECTING THE UNIT (USB)

Step 1: Connect your DSP device to your USB port now. New hardware is found as "Silicon Labs CD210x USB to UART bridge". After that, your computer will inform that "New hardware is ready to use".

Step 2: To check that the port is properly installed, go to "Start > Control Panel > System > Hardware manager". Under the entry "Ports (COM & LPT)" you will have a line named "Silicon Labs CP210x USB to UART Bridge (COMxx)". "xx" is the port number used in your computer. In the Example is COM11.



Step 3: Execute DSPLink (click on icon, under Start > Programs). You will be asked "Do you want to connect to the device?". Now answer "NO" to this question.

Step 4: In the main menu, select Setup/port connection. The following window will appear:

Connection Setup				
Connection Type		-		
Туре	Serial Port / USB	•		
Device				
Device No.	1	•		
Details				
Online				
COM Port	11	-		
IP Address	8 (Not Available) 9 (Not Available) 10 (Not Available) 11			
OK	12 (Not Available) 13 (Not Available) 14 (Not Available)			

For USB connection, select the following parameters: Connection Type: Serial Port/USB Device No. 1 Details: Online: **IMPORTANT: Check this box to activate the connection** COM Port: Select the COM Port in which the Silicon Labs driver (in Step 2) is installed.

Now click on OK. You will be prompted to restart the program. Click on "Yes".

Step 5: Start DSPLink again. Now answer "Yes" to the question "Do you want to connect to the device?" The device will be detected and will appear on the Device List as "Connected". Click on it to access the parameters.

A DSPLink [Software	e Version 2.	11] [Onli	ne]											
Start Setup Upgrade	Help													
Device List Device 1 - Demo 408 Device 2 - (Offline) Device 3 - (Offline) Device 4 - (Offline)	(Connected)													
Device	Window Dev	/1 - Demo	408 Prog	gram 20*	[Firmwar	e Version	7.06]				-			
	Mute	Gain	Delay	Filter	Compress		Mixer	Gain	Delay	Filter	Limit	Mute		
In 1: I	N1 Mute	0.00dB	0.000ms	2 GEQ HP	0.0dBu		1	10,50dB	0.000ms	Bypass	10.0dBu	Mute	Out 1: LOW	
liiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		0.00dB	0.000ms	3 PEQ 2 GEQ BP	0.0dBu		1	0.00dB	0.000ms	1 PEQ	0.0dBu	Mute	Out 2	
	3 Mute	0.00dB	0.000ms	Bypass	0.0dBu		1	0.00dB	0.000ms	Bypass	0.0dBu	Mute	Out 3	
	1 Mute	0.00dB	0.000ms	Bypass	0.0dBu		1	0.00dB	0.000ms	Bypass	0.0dBu	Mute	Out 4	
							1	0.00dB	0.000ms	Bypass	0.0dBu	Mute	Out 5	
							1	0.00dB	0.000ms	Bypass	0.0dBu	Mute	Out 6	
							1	0.00dB	0.000ms	Bypass	0.0dBu	Mute	Out 7	
							1	0.00dB	0.000ms	Bypass	0.0dBu	Mute	Out 8	
Pre	sets	Device							G	onnection Of	<			

4. CONNECTING THE UNIT (ETHERNET)

IMPORTANT: The Ethernet option is only available if you purchased the DSP unit with the optional Ethernet connectivity card.

Step 1: Set the IP address at the DSP unit. To do that, use the front panel controls as following:

Click "Enter" to go inside the Main Menu Click on "Menu >" key until you reach the SYSTEM Eth-IP Option Enter the IP Address you want to use (example: 192.168.1.120)

Amate Electroacústica, s.l.

IMPORTANT: If you are using a direct connection to the device, or via a switch, you need to assign manually an IP address to the network card of your PC. In this address, the three first figures must be the same as the assigned to the DSP unit, but the fourth must be different. For this example, 192.168.1.11 will be fine.

If you are connecting the unit through a router, please take into account the router configuration in order to assign the first three numbers of the IP address (must be the same used in your Local Area Network).

You will not be able to connect the DSP unit if your router is using dynamic IP addressing (DHCP).

Step 2: Connect your DSP device to the Ethernet port of your computer or through a switch/bridge.

Step 3: Execute DSPLink (click on icon, under Start > Programs). You will be asked "Do you want to connect to the device?". Now answer "No" to this question.

Step 4: In the main menu, select Setup/port connection. The following window will appear:

Connection Setup			
Connection Typ	e		
Туре	CAT-5 Ethernet		
Device			
Device No.	1		
Details			
Online	~		
COM Port	11 (Not Available)		
IP Address	192 168 1 120		
OK	Cancel		

For Ethernet connection, select the following parameters: Connection Type: CAT-5 Ethernet Device No. 1 Details: Online: **IMPORTANT: Check this box to activate the connection** IP Address: Enter the same IP address that you configured at the unit in Step 1. In this example 192.168.1.120

Now click on OK. You will be prompted to restart the program. Click on "Yes".

Step 5: Start DSPLink again. Now answer "Yes" to the question "Do you want to connect to the device?" The device will be detected and will appear on the Device List as "Connected". Click on it to access the parameters.