USB Hub-Audio Series

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FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. *Reorient / Relocate the receiving antenna.*
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.
- 4. *Consult the dealer or an experienced radio/TV technician for help.*

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

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Introduction

Thank you for choosing our USB series products. We provide USB Hub, USB Audio and USB Hub-Audio which are combinations of Hub and audio. The following diagrams show you the back plates of the different devices.

Back Plate for USB Hub-Audio (Xtend K90)

ĺ	Port 1	Port 2	Port 3	Port 4	SPK Out	Line Out	Line In	MIC	`
l			\bigcirc		\bigcirc	\bigcirc	\bigcirc	\bigcirc	

Back Plate for USB Hub-Audio (Xtend K85)

Port 1 Port 2 Port 3	SPK Out Line Out Line In MIC	;
	0 0 0 0	

Back Plate for USB Hub (Xtend K80)

Port 1	Port 2	Port 3	Port 4		
	\bigcirc	\bigcirc			

Back Plate for USB Audio (Xtend K50)

	ie In	SPK Out
Line In MIC	Lin	

USB Hub Device Driver Installation Under Windows 98

1.) After starting up your Microsoft Windows 98 operating system, the "Add New Hardware Wizard" dialog box will be displayed on your screen. Click on "Next>".



2.) The "Add New Hardware Wizard" dialog box appears, asking you what Windows should do. Please choose "Search for the best driver for your device. (Recommended)", and click on "Next>".



- 3.) You will receive the following dialog box. Select "<u>C</u>D-ROM drive" and click on "Next>" again. Please make sure that before you click on "Next>", the Windows 98 CD-title has been inserted into your CD-ROM drive.
 - 5



4.) If Windows 98 could not find the correct driver program, the next dialog box will appear on your screen automatically.

Add New Hardware Wiz	ard	
	Windows driver file search for the device:	
	Generic USB Hub	
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.	
🗞 😵 🛛	Location of driver:	
	< <u>₿</u> ack Next> Cancel	Fig. 4

5.) The "Insert Disk" dialog box may appear and ask you to insert the Windows 98 CD-ROM. Just insert it and continue by clicking on "OK".

Insert Di	sk 🛛 🔀	
8	Please insert the disk labeled 'Windows 98 CD-ROM', and then click \ensuremath{OK} .	
	ОК	Fig.5
		0

6.) The "Copying Files..." dialog box as shown below appears. Please specify the path of the device driver files as **E:\Win98**, assuming your CD-ROM drive is E. Click on "OK".



7.) The "Add New Hardware Wizard" dialog box appears again. Click on "Finish" and the installation of the software for your new hardware device has been finished.

Add New Hardware Wiza	ard	
	Generic USB Hub	
	Windows has finished installing the software that your new hardware device requires.	
~		
	< Back Finish Cancel	
		Fig.7

Verifying Correct USB Hub Device Driver Installation

If you want to view the correct installation of the device driver for your new hardware device, please follow the steps as described below.

- 1.) Go to >"Start"/ >"Settings"/ >"Control Panel" and double-click on the "System" icon.
- 2.) The "System Properties" dialog box appears. Choose the "Device Manager" tap and double-click on "Universal serial bus controller". You will see the following device has been added:

\Rightarrow Generic (JSB Hub	
System Properties		? ×
General Device Ma	anager Hardware Profiles Performance	
 View devices t 	by <u>type</u> O View devices by <u>c</u> onnec	tion
CDROM CDROM Display ar Display ar Floppy dis Hard disk Keyboard Mouse Monitors Network a Sound, vi System de CDROM CDROM CORONAL System de CDROM CORONAL COROM CORONAL COROM CORO	es dapters sk controllers controllers dapters M & LPT) ideo and game controllers levices I serial bus controller eric USB Hub 82371AB/EB PCI to USB Universal Host C Root Hub Befresh	Controller
	<u>heiresn</u> <u>hemove</u>	
	OK	Cancel Fig. 9
		I ig.c

Under "Universal serial bus controller": \Rightarrow Generic USB Hub

USB Audio Device Driver Installation Under Windows 98

1.) After starting up your Microsoft Windows 98 operating system, the "New Hardware Found" dialog box will be displayed on your screen. Then a dialog box as displayed below appears. Please click on the "Next>" push button.

Add New Hardware Wiz	ard	
	This wizard searches for new drivers for: USB Composite Device A device driver is a software program that makes a hardware device work.	
	< Back Next> Cancel	Fig.9

- 2.) The "Add New Hardware Wizard" dialog box appears, asking you what Windows should do. Please choose "Search for the best driver for your device. (Recommended)", and click on the "Next>" button. Same as Figure 2 on page 3.
- 3.) You will receive the next dialog box. Select "<u>C</u>D-ROM drive" and click on the "Next>" push button again. Please make sure that before you click on the "Next>" button, the Windows 98 CD-title has been inserted into your CD-ROM drive. Same as Figure 3 on page 4.
- 4.) If Windows 98 could not find the correct driver program, the next dialog box will appear on your screen automatically.



5.) Just click on the "Next>" button and you will receive a dialog box as shown below. Please click on the "Finish" push button.

Add New Hardware Wiz	ard	
	USB Composite Device	
	Windows has finished installing the software that your new hardware device requires.	
ی ک		
	< Back Finish Cancel	Fig 11

6.) The next "Add New Hardware Wizard" dialog box will display the message "USB Human Interface Device". Please continue by clicking on the "Next>" push button.





- 7.) Please choose "Search for the best driver for your device (Recommended)", and click on the "Next>" push button. Same as Figure 2 on page 3.
- 8.) Please make sure your Windows 98 CD-title has been inserted into your CD-ROM drive. Activate the box "<u>C</u>D-ROM drive" and click on the "Next>" push button. Same as Figure 3 on page 4.
- 9.) The following dialog box will display the message "USB Human Interface Device". Accept the location of the driver by clicking on the "Next>" push button.



10.) The dialog box displayed below will inform you that Windows has finished installing the software for your new hardware device. Click on the "Finish" push button.



11.) Now Windows will search for the new drivers for "USB Audio Device". Click on the "Next>" push button.

Add New Hardware Wiz	ard	
	This wizard searches for new drivers for:	
	USB Audio Device	
	A device driver is a software program that makes a hardware device work.	
🗞 📚		
	<back next=""> Cancel Fig</back>	15

- 12.) Please choose "Search for the best driver for your device (Recommended)", and click on the "Next>" push button. Same as Figure 2 on page 3.
- 13.) Please make sure your Windows 98 CD-title has been inserted into your CD-ROM drive. Activate the box "<u>C</u>D-ROM drive" and click on the "Next>" push button. Same as Figure 3 on page 4.



14.) The following dialog box will inform you that Windows is searching for the "USB Audio Device". Please click on the "Next>" push button to accept the location of the device driver.

Add New Hardware Wizard			
	Windows driver file search for the device:		
	USB Audio Device		
	Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.		
🏽 🗞 🌧 🛛	Location of driver:		
	C:\WINDOWS\INF\WDMA_USB.INF		
	< Back Next> Lancel		

15.) Windows 98 has finished installing the software for your new hardware device. Just click on the "Finish" push button.

Add New Hardware Wizard			
	USB Audio Device		
	Windows has finished installing the software that your new hardware device requires.		
~			
	< Back Finish Cancel	Fig.17	

Congratulations! All installation procedures for the USB Audio device driver are complete, but you still have to ensure that the USB Audio works correctly. Please follow the next instructions step by step.



Verifying Correct USB Audio Device Driver Installation

1.) Click on the "Start" button from your Microsoft Windows 98 task bar. Select "Settings", point at the "Control Panel" item and click on it. The "Control Panel" window will appear. Choose the "System" icon, double-click on it and a dialog box as displayed below will appear.



- 2.) From the "System Properties" dialog box select the "Device Manager" tap. The following devices have been added to your system:
 - Under "Human Interface Devices":
 - \Rightarrow HID-compliant consumer control device
 - \Rightarrow USB Human Interface Device
 - Under "Sound, video and game controllers":
 - \Rightarrow USB Audio Device
 - Under "Universal serial bus controller":
 - \Rightarrow USB Composite Device

Please make sure that "USB Composite Device" is displayed on the screen, this means that the USB Audio is registered by Microsoft Windows 98. You can enable the USB Audio now.

How to Enable USB Audio

 Please click on the "Start" button which is on the taskbar of your Microsoft Windows 98 operating system. Select "Settings" and point at the "Control Panel" item. From the "Control Panel" window double-click on the "Multimedia" icon. Windows 98 will display the "Multimedia Properties" dialog box. Please enable your "Audio" window same as below, then click on the "MIDI" tap. You will receive a dialog box as shown on the next page.

Multimedia Properties
Audio Video MIDI CD Music Devices
Playback Preferred <u>d</u> evice: USB Audio Device (1)
To select advanced options, click: Advanced Properties
Recording Preferred device: No Recording Devices
To select advanced options, click: Advanced Properties
□ Use only preferred devices.
✓ Show volume control on the taskbar.
OK Cancel Apply

2.) Under "MIDI output" select "Single instrument" and highlight "Microsoft GS Wavetable SW Synth". Just continue by clicking on the "CD Music" tap and you will receive the last dialog box as shown on the next page.

Multimedia Properties ?>
Audio Video MIDI CD Music Devices
MIDI output
© Single instrument
Microsoft GS Wavetable SW Synth
Microsoft GS Wavetable SW Synth
About
MIDL scheme:
Default <u>Co</u> nfigure
Add <u>N</u> ew Instrument
OK Cancel Apply

3.) The "CD Music" dialog box appears showing you the default CD-ROM drive for playing CD music. If you have more than one CD-ROM drive, make now your choice. You might also want to adjust the volume for your CD music. Do this by dragging the slide bare horizontally.

Multimedia Properties				
Audio Video MIDI CD Music Devices				
These settings determine the way in which Windows uses your CD-RDM for playing CD music.				
CD-ROM selection				
If you have more than one CD-ROM drive, select the CD-ROM drive you want Windows to use for playing CD music.				
Default CD-ROM drive for playing CD music: F:				
<u>C</u> D Music Volume:				
You can have Windows use digital instead of analog playback of CD audio. This feature may not work with all CD-ROM devices, disable if you are having problems with CD audio.				
Enable digital CD audio for this CD-ROM device.				
OK Cancel Apply				

Finally enable the digital CD audio for this CD-ROM device and click on the "OK" push button, so that all new selections can take effect.

Now you are ready to play Audio CD, MIDI- or Wave files through the Multimedia Application Program of Microsoft Windows 98. Have fun!

USB Hub-Audio Device Driver Installation Under Windows 98

In order to install the device driver for your USB Hub-Audio device please follow the installation procedure as described in chapter "USB Hub Device Driver Installation Under Windows 98", page 3, step 1 to 7.

After the last dialog box "Add New Hardware Wizard" with the message "Generic USB Hub" appears click on the "Finish" push button and you may continue by following the installation procedure as described in chapter "USB Audio Device Driver Installation Under Windows 98", page 7, step 1 to 15.

Verifying Correct USB Hub-Audio Device Driver Installation

1.) Click on the "Start" button from your Microsoft Windows 98 task bar. Select "Settings", point at the "Control Panel" item and click on it. The "Control Panel" window will appear. Choose the "System" icon, double-click on it and a dialog box as displayed will appear.

System Properties ? × General Device Manager Hardware Profiles Performance	2.) From the "System Properties" dialog box select the "Device
View devices by connection Human Interface Devices HID-compliant consumer control device USB Human Interface Device Wew devices by connection Work Work <t< th=""><th>Manager" tap. The following devices have been added to your system: Under "Human Interface Devices": ⇒ HID-compliant consumer control device ⇒ USB Human Interface Device</th></t<>	Manager" tap. The following devices have been added to your system: Under "Human Interface Devices": ⇒ HID-compliant consumer control device ⇒ USB Human Interface Device
OK Cancel	Fig.19

Under "Sound, video and game controllers":

- \Rightarrow USB Audio Device
- Under "Universal serial bus controller":
 - \Rightarrow Generic USB Hub
 - \Rightarrow USB Composite Device

Please make sure that "Generic USB Hub" and "USB Composite Device" are displayed on the screen, this means that the USB Hub-Audio is registered by Microsoft Windows 98. You can enable the USB Hub-Audio now.

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