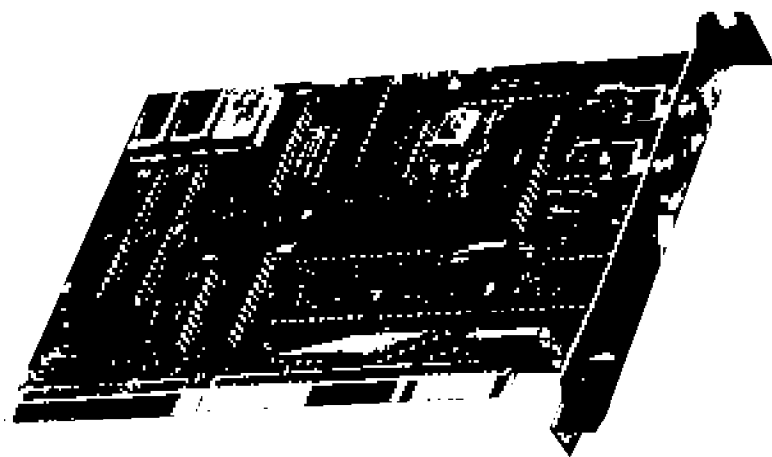


MIDIA PRODIF

Digital Audio Interface



TECHNICAL SUPPORT

SCALACS is determined to delivery to our customers the best customer service and product support possible. To that end, if any problems should arise in the use of our software, or any of our hardware doesn't function as you wish. We ask you please first to reconsult your user's handbook, if the solution to your problem can not be found there, feel free to contact our technical support center.

E-Mail: webmaster@scalacs.de

Copyright 1997, SCALACS

Contents:

<i>Overview</i>	<u>5</u>
<i>Features</i>	<u>5</u>
<i>System Requirements</i>	<u>5</u>
<i>Technical Information</i>	<u>5</u>
<i>Hardware Installation</i>	<u>7</u>
<i>Windows 3.1x</i>	<u>8</u>
<i>Windows 95</i>	<u>9</u>
<i>Windows NT 4.0</i>	<u>10</u>
<i>MS-DOS Utilities</i>	<u>11</u>
Player/Recorder	<u>11</u>
wplay.exe	<u>11</u>
wrec.exe	<u>12</u>
Streamer	<u>12</u>
dbackup.exe	<u>13</u>
drestore.exe	<u>14</u>
<i>Toolkit</i>	<u>15</u>

Overview

The Midia Prodif Digital Recording System converts your IBM AT 386/486/586 computer into a digital hard disk recorder/. The system consists of:

- SPDIF interface card
- Win 3.x, Win 95 and Win-NT4.0 multimedia driver

Features

- optical and koxial inputs/outputs
- easy installation
- digital copy mode at 44.1 kHz
- CE certification (Jan. 1996)

System Requirements

- IBM AT 386/486/586 or compatible PC
- One free 16-bit ISA Bus expansion slot
- Windows 3.1x / Windows 95/Windows NT 4.0

For best results: use a 486 or faster computer.

If you have a 386-based computer, you may have trouble playing or recording Wave files formatted at sample rates of 44.1kHz or higher. You may still be able to produce 44.1 kHz files, but probably won't be able to hear them without problems, unless you play the same file on a 486 computer with a fast hard disk drive. The basic problem is that at 44.1kHz data moves faster than an average 386 system can store it. At playback time you may hear erratic, interrupted output; at worst your system could freeze. The data streamer support is deprecated !

Technical Information

Figure 1: Hardware

Digital Audio Input:	1xRCA, optical
Digital Audio Output:	1xRCA, optical
Digital Format:	SPDIF (Sony Phillips Digital Interface)
Sampling rates:	32, 44.1 und 48 kHz
PC slot type:	ISA 16 Bit
Interrupts:	10, 11, 12, 14, 15
I/O ports:	140,150 .. 170, 340, 350 .. 370

Figure 2: supported digital formats

Sample Freq. (kHz)	Mono/Stereo	Bits	Play/Record
22.05	M	8	P
32	M/S	16	P/R
44.1	M/S	16	P/R
48	M/S	16	P/R

Hardware Installation

The I/O address is selected by a triple DIP switch at the board. To change the factory default I/O address of 150, change the switches according to figure 4.

The default IRQ setting is irq 12 and can be changed by software (Windows driver)

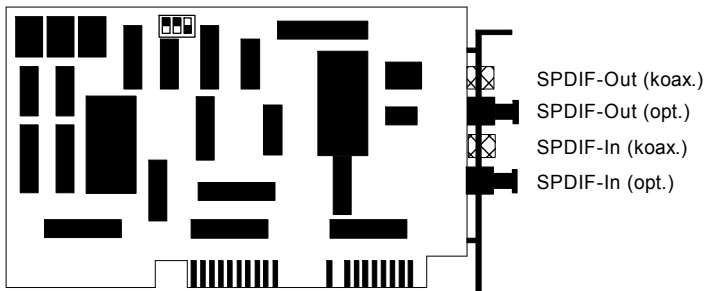


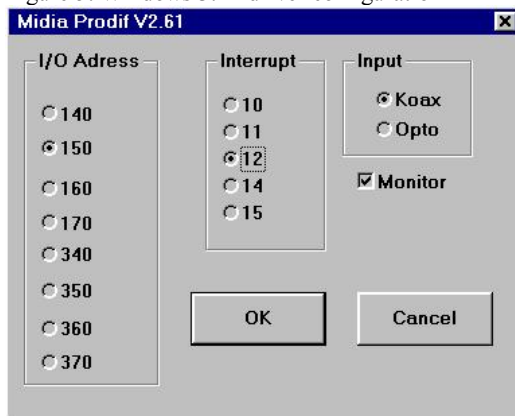
Figure 4: I/O adress jumpers

IO-Adress	Switch 1	Switch 2	Switch 3
140h	Off	Off	Off
150h	On	Off	Off
160h	Off	On	Off
170h	On	On	Off
340h	Off	Off	On
350h	On	Off	On
360h	Off	On	On
370h	On	On	On

Windows 3.1x

1. Start *Windows*
2. Put the Midia Prodif disk in your drive (A or B)
3. Start the Windows Program Manager and select *System* from the main group
4. Select *Driver*
5. Select *Add*
6. Select *Not listed or updated driver*
7. Put in your drive and select Ok.
5. Select *Midia Prodif Driver*
6. Ignore the erro message ,Can not find scalacs.386‘
8. You will see the Midia Prodif configuration dialog box

Figure 5: Windows 3.1x driver configuration



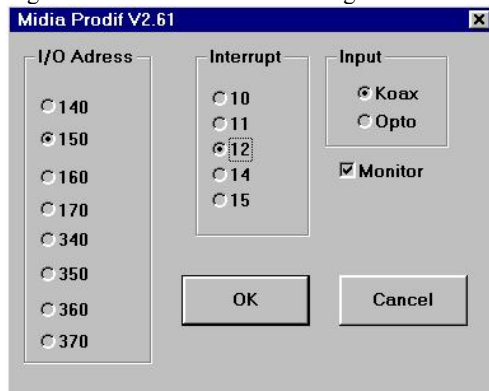
Select the I/O adress and IRQ you have set in the hardware installation part. From now on every WIN 3.1 multimedia compatible program can use the Prodif100 for Wave in/output (e.g Samplitude, The EdDitor and so on.).

Windows 95

If there is no current Prodif Windows driver installed on your system, follow these steps to install the Prodif Windows driver:

1. Open the Control Panel application.
2. Start the *Hardware* applet.
3. The Hardware Assistant will turn up. Push the *Continue* button. Answer to the question to looking for new hardware with *No*. Now you will be back at the Hardware Assistant.
4. Select *Sound, Video* and push the *Disk...* button. You will prompted for a disk drive from which to read the Windows driver. Insert your Prodif driver disk into your floppy disk drive, and, if necessary, enter the the disk drive specification (usually A: or B:) in the prompt box. Enter *OK*.
5. Select the Prodif driver and push *Continue*.
6. Ignore the erro message ,Can not find scalacs.386‘
7. The Prodif driver setup dialog box will then appear:

Figure 6: Windows 95 driver configuration



Make your setup choices now. Select the I/O address and IRQ you have set in the hardware installation part. From now on every WINDOWS 95 multimedia compatible program can use the

Prodif100 for Wave in/output (e.g Samplitude, The EdDitor and so on.).

Windows NT 4.0

Boot NT

Log on as Administrator

Select Settings/Control Panel/Multimedia/Device

Click on Add Button.

On the "List of Drivers" menu, the "Unlisted or Updated Driver" should be highlighted. If it is not highlighted, select it. Choose OK.

When prompted, insert the ProDIF 100 Driver disk. Change the path to A:\nt and select OK.

On the "Add Unlisted or Updated Driver" menu, the "ProDIF 100 Wave Driver" should be highlighted. If it is not highlighted, select it. Choose OK.

At this point, the following message may occur: "The required prodif.dll driver is already on the system. Do you want to use the current driver or install new driver?"

Selecting Current will use the driver already on the system, and selecting New will use the driver on the floppy disk.

For the path to the ProDIF-100 adapter files, leave A:\nt and select Continue.

On the "ProDIF 100 Configuration" menu select your current Port and Interrupt settings. In most cases the Default will be acceptable. Choose OK.

When prompted, reboot your System for the new drivers to take effect.

MS-DOS Utilities

These programs will only work with a Midia Prodif and only in native ms-dos and not in a ms-dos window under windows.

Player/Recorder

The programs wplay.exe and wrec.exe are a simple wave player and recorder.

wplay.exe

Playback of wave files.

Syntax:

wplay File [pIoport] [iInterrupt]

File is the name of a wave file to play

Ioport is the Prodif I/O port (default 15)

Interrupt is the Prodif IRQ (default 12)

Example:

wplay hit.wav /p150 /i12

wrec.exe

Recording of wave files.

Syntax:

wrec File [pIoport] [iInterrupt] [/o]

File is the name of the wave file you will record to

Ioport is the Prodif I/O port (default 15)

Interrupt is the Prodif IRQ (default 12)

/o tells to use the optical input (default koax)

Example:

wrec myhit.wav /p150 /i12 /o

Streamer

The Prodif Streamer software enables you to backup data files from your hard disk to a standard DAT-recorder. You can backup a whole disk ore selected directories with selected files. Each backup, called an *archive*, is identified by an archive name. You need this archive name to restore your archive later on. The files are backup-up at a maximum speed of 140Kbytes/second, depending on the average size of the files. So you can archive a maximum of 790 MB on one 90 minute DAT tape. We don't recommend using R120 tapes, because they are more sensible to dropouts. Of course you should always use fresh tapes of best quality.

This software is not intended to be a full professional backup program. But it's handy to save your the big wave files. Don't use it for sensible data files !

dbackup.exe

Use this program to backup data files to a DAT recorder

Syntax

```
dbackup Archive Source [/s] [p:ioport] [I:irq]
```

Archive is the name of the archive.

Source specifies the files to backup. It may consist of a drive with a colon, a directory and a filename-pattern.

The option /s backups all subdirectories.

ioport is the Prodif I/O port (default 150).

irq the Prodif IRQ (default 12).

All arguments enclosed in ,[]' are optional.

Examples:

a) Save all files from driver C with archive name ,disk.c'

```
dbackup disk-c c:|*.*/s
```

b) Save all wave-files on drive D with archive name ,wave-d'

```
dbackup wave-d d:|*.wav/s
```

Handling:

- put DAT-recorder into recording position
- start backup

drestore.exe

Use this program to restore archives saved by dbackup.exe.

Syntax:

drestore Archive files [/v] [d:drive] [p:ioport] [I:irq] [/o]

Archive is the name of the archive to restore from tape.

Files is the filename or a pattern to restore from the archive.

If you set the option /v, your archive files will only be shown on screen and not restored to disk, so you can verify the archive.

drive is the destination drive for the files to be restored to. Default is the drive the archive is backed up from.

ioport is the Prodif I/O port (default 150).

irq the Prodif IRQ (default 12).

/o will use the optical input (default koax)

All arguments enclosed in ,[]' are optional.

Examples:

a) Restore the archive name ,disk-c':

*drestore disk-c *.**

b) Restore the archive ,wave-d', but restore to drive E:

drestore wave-d *.* /d:E

c) Show all archives on tape (xxx is a non existing archive name):

*drestore xxx *.* /v*

Handling:

- start drestore
- start DAT-recorder

Toolkit

The complete source code for a ms-dos based wave player/recorder using Borland-C++ 4.0 can be found on the disk. Based on this template you will be able to write your own programs using the Midia Prodif.