Roadne tyt Realtek Semiconductor Corp. AC' 97 Sound SystemSoftware Installation and Setup ver: 44.06

Driver & Amplication Installation/Renoval Procedure For Realtek AC'97 Codec:

<<< For Vin2000/VinME/VinXP (VIMdriver)/Vin98 Gold(First Edition)/Vin98SE >>>

Setup Driver/Application at first time:

- Step 1. Before installing the Realtek AC'97 Drivers & Applications, Press the [Cancel] button if Windows detect the PCI Miltimedia Audio device.
- Step 2. Insert the "Realtek AC'97 Drivers & Applications" CD into the CD ROM drive and run the setup exe program to finish the installation.
- Step 3. Click on [Next/OK/Go] to continue the procedure. If the Windows popup "Digital Signature Not Found" message, press [Yes] to continue the installation
- Step 4. Finally, select to restart the system and press [Finish] to complete the installation.

The system will reload the drivers and do some adjustments in the INF file if so required.

Setup for Minual

- Double-click the "System" icon to open the "SystemProperties" dialog fromControl Panel .
 Choose "Hardware" tab and click the "Device Manager" button .
 Please right-click mouse on "MiltiMedia Audio Controller" and choose the "Properties" menu item to show the driver details. 4. Click the "Driver" tab and then click the "Update Driver..." button for update. 5. Please follow the instructions of the "Upgrade Device Driver Wizard".

- Choose "Search for a suitable driver for my device" and click the "Next" button. 6
- 7. Please specify the driver location/source and then click the "Next" button in this case,

- "Specify a location" has been chosen. 8. If "Specify driver location" is chosen, the Wizard will ask for the path where the driver is located. 9. Click the "Next" button to install Andio Driver on "Driver Files Search Results". 10. If the "Digital Signature Not Found" dialog is opened, click the "Yes" button to continue the Installation.
- 11. After completing the above steps, the drier has been installed into the system Please click "Finish" button to complete the installation.

Update Driver/Application:

Step 1. Follow Step 2, 3, 4 described in [Setup at first time] above to complete the procedure.

Remove Driver/Application:

Step 1. Go to Start\Settings\Control Panel.

- Step 2. Select [Add/Renove Programs] icon.
- Step 3. Select "Realtek AC'97 Audio" and press [Change/Remove] button.
- Step 4. Click on [Next/OK/Go] to finish the uninstallation.
- Step 5. At the end of the procedure, select to restart the system and press [Finish] to complete the uninstallation.

<<< For WinNT 4.0 (NI4 driver) >>>

Setup Driver/Application at first time:

Ignore Step 1, and follow the same procedure in Win2000/WinNE/WinXP.

Update Driver/Application:

The same procedure in Win2000/WinME/WinXP.

Remove Driver/Application:

The same procedure in Win2000/WinWE/WinXP.

<< Other Informations >>

-----Silent Installation:

Run "Setup -s -f2<path\LogFile> -z[-rp<path\LogFile>]" i.e. setup -s -f2c:\mylog.log -z[-rpC:\RHSetup.log]

Note: 1. AVRack only works fine under WinNT 4.0 after installing Service Pick 3 or later. 2. Please update Directx version to DirectX8.0 or above.

Version Informations: -----

WM driver for Vin98/VinMe/Vin2000/VinXP	: 5.10.0.6300
WM driver for Vinlows x64	: 5.10.0.6300
VXD driver for Vin95	: 4.5.0.3019
VXD Software wavetable driver	: 3.1.0.0
NI4 driver for Vinlows NI4	: 4.3.0.3040
NI4 software wavetable driver	: 4.3.0.2002
RtlRack for Vin98/ME/2000/XP	: 1.15.0.0
AvRack for Vin95/NI4	: 2003.4.4.1
Realtek Soundnan	: 5.1.0.59
Realtek Sound Effect Minager(CPL)	: 2.2.0.73
Realtek Sound Effect Minager(RtlCpl)	: 1.01.66
Realtek Sound Effect Minager for NI4	: 2.3.0.3
Driver/Application Setup Program	: 5.36

-----History:

A4. 06

- For special customize settings.
 Update Realtek 3D engine.

A4.05

- Update Realtek 3D engine.
 For special customize settings.
 Fix blue screen issue.
 For AII chipset missing sound 1s when playing music.

A4. 04

- Undate Realtek 3D engine.
 For special customize settings.
 Fix blue screen issue.

A4.03

- Undate Realtek 3D engine.
 For special customize settings.
 Fix blue screen issue.

Readue, txt

A4. 02 1. Update Realtek 3D engine. 2. For special customize settings. 3. Fix no sound issue when Hibernate back for AII chipset. **A4. M** 1. Sync HPOut and MinoOut Volume with Mister Volume. 2. Update Realtek 3D engine. Grante Relater SD engine.
 For SPILF mate issue with SPILF fromSR.
 For special customize settings.
 For DIMTesting Surprise Renove Hang up issue. A4.00 -1. For special customize settings. A3. 99 -1. For special customize settings. 2. For unknow chipset resource issue. 3. Fix CEN and SURP have output in 2 channel issue. A3.98 -1. For special customize settings. A3.97 -1. For special customize settings. A3.96 -1. For special customize settings. A3.95 -1. Support Mino Out Select feature. For special customize settings.
 For SPHF no sound issue. 4. Update Realtek 3D engine.
 5. Support default PCMOnt Volume adjustment feature.
 6. Add customize settings feature for AMD CS5536 chipset. 7. Fix S3 hang up issue for AMD CS5536 chipset. 8. Install problem for Windows 98 se .

A3. 94 -

- For special customize settings.
 Fix UAJ timer object doesn't initialize issue.
 Support Software Mcrophone Boost feature.

A3.98 -

- For special customize settings.
 For VIA recording issue.

A3 92 -

- 1. Fix CD In default volume issue
- 2. Support AMD CS5536(0x2093) chipset.
- For special customize settings.
 Uninstall issue when IS6.x built application in system.

A3.91 -

- 1. For special customize settings.
- 2. Update Realtek 3D engine.

A3.90 -

1. For special customize settings.

A3.89 -

- 1. Fix Fujitsu blue screen issue on BSOD on LANCE2.
- For special customize settings.
- 3. Fix AII chipsets can't enter C3 state issue.

A3.88 -

- 1. For special customize settings
- 2. Update Realtek 3D engine.
- 3. Fix delay issue in starting Windows.

A3. 87

- Update Realtek 3D engine.
 For special customize settings.

1. For special customize settings. A3.85 Update Realtek 3D engine.
 For special customize settings. 3. For Fujitsu power management issue. 4. Wite installation progress and result to "C:\ALCSetup log" within silent mode . Assign log file name and path for silent mode program issue .
 Upgrade setup program to IS11.5 . A3. 84 -1. For special customize settings. A3. 83 - Support Sensaura filter driver.
 For AC3 SPHIF issue when modernis present in ATI chipsets. 3. For special customize settings. A3.82 -1. Fix 8-channel line-out noise issue in WIIIA chipsets. 2. Update Realtek 3D engine. 3. For special customize settings. A3. 81 Fix 8-channel noise issue for NUHA chipsets.
 Fix "Wirld Of Wircraft" game noise issue in AII chipsets. 3. Update Realtek 3D engine. 4. For special customize settings. A3.80 -1. For special customize settings. 2. For modemremote wake up issue in ALI chipsets. A3. 79 -1. Minual setup driver setting "Add and remove program" . 2. For special customize settings. A3. 78 -1. For special customize settings. A3. 77 -1. For special customize settings. 2. Update audio 3D engine. 3. Roll Back driver problem. 4. Delete oeminf file for realtek in Windows x64 . A3. 76 -1. For special customize settings. 2. Fix pop noise for AII chipsets. 3. Fix recording noise when below 48K samplerate. 4. Fix C3 state issue for AII chipsets. 5. For ALI 1689 chipsets can't record continue after power resume. 6. Make driver package to be 8.3 format. 7. Setup Package-Delete older inf file (alcxvdnî.inf) for updating driver. 8. Setup Package-General inf file name change to "Alcxau inf". A3.75 -1. For special customize settings. 2. Update Realtek 3D engine. Support for the VIA Pro-over-S/PIIF Format.
 Support DIS function for ALC850.
 Fix All 1689 chipsets can't record continue after power resume. 6. Fixed driver package can't be removed on WinME. A3. 74 - For special customize settings.
 Fix SPHF streamhang up by playing DVD. A3. 73a -

1. Driver general inf.

A3.86 -

- Setup package application size and progress backward problem.
 Fixed driver package can't be removed on win98se .
 HT Scan on windows x64 os .

A3. 73 -

- 1. For special customize settings.
- 2. Support codec ALC653.
- 3. Fix record from SPHF IN have noise in hyper-thread mde.
- A3 72 -
- 1. For special customize settings.
- 2. Modify initiate of IM buffer allocate. 3. Fix abnormal THD-N performance on A-D test.

A3.71 -

- 1. For special customize settings.
- 2. Fix HT 12.1 DRM test fail issue.
- 3. Fix playback and record could not been played in the same time issue for AII and nVidia chinsets.

A3.70 -

1. Add some customized settings.

A3.69

- Add some customized settings.
 Add SPHIF IN pass throuth SPHIF Out itemfor some of AII and nVidia chipsets.
 Fix AC3 SPHIF blue screen issue when SPHIF-out force to 44K
- 4. Change IMA Threshold from 06 to 10 to decrease noise for ATI SB400 chipset.
- 5. Undate 3D engine to fix Half Life 2(Game) no sound issue and some noise issues.

A3.68 -

- 1. Add some customized settings.
- 2. Change IM operation mode.
- Fix SPILF out issue for ALI1573 and ALI1689.
 Fix SPILF no output issue for digital and analog output mode in ALC658.
- 5. Fix SPILF noise or no output issues in nVidia chipsets.
- 6. Fix audio can't be test in 3D Marks.
- 7. Fix UI2004 game noise issue.

A3 67

- 1. Add some customized settings.
- 2. SPILF-out goes to AClink slot 6/9 for ATI SB400 when modem present.
- 3. Add New feature: Disable Analog CD.
- 4. Fix issue : nono-out volume synchronize with Master volume for ALC655 force 2 channel node.

A3 66 -

- 1. Add some customized settings.
- 2. Enable Present ICH IMA hang up function in default.
- 3. Fix WarcraftIII game noise issue.
- Add a new feature : Don't power taggle PR3 for ALC655 and ALC850.
 Support swapping center Left function for nVidia CK804 chipset.
 Support VRUL for nVidia CK804 chipset.

A3 65

- 1. Add some customized settings.
- 2. Fix SPILF OUT no sound for ALC650 codec after power resume.

A3. 64

- 1. Add some customized settings.
- 2. Update Realtek 3D engine.
- 3. Support AC3 SPILE and 8 channels for nVidia CK804.
- 4. Fix EAPD issue after S1 or S3 resume.
- 5. Fix getposition not acceurate for AII chipsets.

A3.63 -

- 1. Add some customized settings.
- Fix undertun noise issue by changing threshold value for ATi chipset.
 Fix 'Winbench' application issue in 4 channel mode when Sensaura engine is disabled.

A3.62 -

- 1. Add some customized settings.
- Fix SPIIF Copy protect issue in Mediaplayer.
 Support AC3 SPIIF and 8 channels for Ali1689 chipsets.
- 4. Reduce POP noise with EAPD for power change.

A3.61 -

1. Add some customized settings.

A3. 60 -

1. Add some customized settings.

- 2. Add workaround code when pause IMA engine for ICH6 / Hance Rapid. 3. Fix bug for "Force 44K SPILF" feature when disable direct sound acceleration engine.
- 4. Set Surr-out pin as HP-out pin for ALC655 when disable multi-channels function.

A3. 59 -

- Add some customized settings.
 Add channel status information of SPILF output for ATi chipset(SB150/SB200/SB250).

A3. 58

- Add some customized settings.
 Fix some U issues for Realtek control panel.
 Fix some issues for ATI chipset(SE150/SE200/SE250).
- 4. Solve pop noise for noise suppression feature.

A3. 57 -

- Add some customized settings.
 Fix some issues for the certain page of control panel.

A3.56

- 1. Add some customized settings.
- 2. Update directsound acceleration engine.
- 3. Fix the issue which control panel shows the inproper itemin "Mcrophone" tab under some situation.

A3 55 -

- Inprove the algorithm of Jack sensing.
 Add some customized settings.
- 3. Support ICH6.
- Inprove the algorithm for ALC250 Hardware EQ feature.
 Fix the issue which ALX volume register will be set the inproper value.
- 6. Inprove the algorithm of Noise suppression feature.
- 7. Fix SPILF output issue for "WiveCyclic" architecture.

A3.54 -

- 1. Add some customized settings.
- Support Mcrophone Noise Suppression feature.
 Toggle Vref before change Mcrophone jack type for AC97 2.3 codecs.
 Midify Peak filter parameters for ALC655.

A3. 53 -

- Add some customized settings.
 Add "Remove recording DC offset" feature.
- 3. Fix Hardware EQ noise issue for ALC250.
- Support 1 nVidia chipset (CR85).
 Add vorkaround code for ATI chipset recording issue.
- 6. Support 8 channels playback feature for nVidia chipset with ALC850.
 7. Fix the issue about SPILF function type feature with ALC850.
 8. Midify Peak Filter parameters for ALC655 and ALC850.
 9. Fix side channel noise issue for VIA chipset with ALC850.

- 10. Add a new feature: SPDLF out can be sent to ACLink for ATL and nVidia Chipset.
- 11. Fix SPIEF slot assignment error for ALC850. 12. Support "Snart GPIO Volume Control" & "DC Voltage Volume Control" features for ALC250 and ALC203. 13. Turn on bit 14 of DC97_ALILO REG_INTERRUPT_ENABLE while audio playing for ALI chipset.

- 14. Add flexibility for "Preventing ICH hang up" feature. 15. Inprove DirectMisic startup latency when HyperThreading was enabled.
- 16. Fix Pinhall delay problem on Win2000. 17. This vesion does not include ALi 1535 chipset support.

A3.52 -

- 1. Add some customized settings.

- Fix SPIIF output frequency issue for nVidia chipset.
 Bisable Hardware EQ first before restore Hardware EQ for ALC250 when resuem
 Disable Hardware EQ first before restore Hardware EQ for ALC250 polling function.
- 5. Turn on UAJ function for ALC850.
- 6. Set SPHIF control register to proper value when driver initialize. 7. Inprove Read/Wite codec register algorithm
- 8. Reduce resume time.
- 9. Add "Remove Recording DC offset" feature.
- 10. Check ALC850 JD5 to decide if support 8-channels feature.
- 11. Fix SPILF output slot assignment error for ALC850.

A3.51 -

1. Add ICH2, ICHB and ATI Chipset IDs.

A3.50 -

- Support ALC850.
 Add some customized settings.
- 3. Use "Wive PCI" architecture for AII chipset.
- 4. Inprove Jack Sensing algorithm to eliminate noise. 5. Show "Real-Time SPIFF-in Munitor" node for nVidia chipset.
- 6. Renove ICH2/ICH3/ATi chipsets IDs.
- 7. Change JD bit definition of Front-out detection function for ALC658 (C version / D version). 8. Set "Direct DAC Mode" to Summation of DAC and analog inputs if H'w EQ is bypassed for ALC250.

A3. 49 -

- Modify some customize settings.
 Fine tune some registers for ALC655 to avoid noise.
 Fine tune Surround D4C Volume and Center/LFE D4C volume for ALC655.
- 4. Set ALC655 Vrefout as 4V for 1 customer.
- 5. Fix Intel autio device IM hang up issue for some customers.

A3.48 -

- Add some customize settings.
 Turn on "Ignore SPHF in Invalid Bit" option as default if codec support.
- Set Pin 47 as EAPD pin and turn off SPITF in function as default for ALC2508ALC203.
 Use "WaveCyclic" architecture under Windows 98 Gold version.
- 5. Modify Realtek control panel that don't detect UAJ automatically
- while Windows start for some customer's request. 6. Fix the failures on HCT 9.6 (WinME) "KS Position Accuracy" test. 7. Fix the problems with SPDF output through DirectSound.

- 8. Prevent potential discontinuities in 8 bit streams.
- 9. Prevent potential audio systembangs on badly behaved audio drivers.

A3. 47

- Add some customize settings.
 Turn off SPHIF-In Schmitt Trigger Control for ALC655.
- 3. Fix the problem that AC3 stream will hang with the older revision of VIA8233 under Vin98 SE
- 4. Fix the problem that AC3 stream will be abnormal with Direct sound API.
- Add hand-shaking protocol between audio driver and modemdriver for AII chipset.
 Bisable "Mc2 Select" node in mixer for ALC655/ALC658.
- 7. Fix the bugcheck D1 in HCT verifier for nVidia chipset.

A3.46 -

- Add some customize settings.
 Add Hardware EQ function for ALC250.
- Support independent SPIIF engine for nVidia CMB chipset.
 Midify driver for UAJ function.
 Midify UAJ thresholds for ALC658.

- 6. Fix audio driver bug for AII chipset.
- 7. Fix audio driver bug about nVidia independent SPIIF engine.
- 8. Change direct sound acceleration engine. (New engine require DirectX 8.1 under Windows 98 SE).

A3.45 -

- 1. Add some customize settings
- 2. Reduce resume time for VIĂ chipset.
- 3. Midify nixer volume control algorithm for multi-channels codec to prevent
- the value of mixer out of rang
- 4. Implement ATI dedicate SPIIF IM engine.
- 5. Support ALC250 and ALC658.
- 6. Fix the problem that Jack Sensing will hang in Windows 98SE.
- 7. Fix ICH5 pause IM issue.

A3.44 -

- Support independent SPHF engine for nVidia MCP2 chipset under Windows 98 SE.
 Inprove the initialize procedure and the IMA access algorithm for VIA chipsets.
 Add some customize settings.
 Apply the Channel Order and FIFO Flush procedure for AH A41 chipset.

A3. 43 -

- 1. Support ALC203 UAJ function.
- 2. Add some customize settings.
- Support independent SPIIF engine for VIA 8233 (Only for never chipset version) under Windows 98 SE.
 Fix hang up issue when systems uspend for Ali 1563 chipset.
- 5. Fully support Jack sensing function with multiple language.
- 6. Fix Jack sensing problem with DirectX 6.1.

A3.42 -

- 1. Support ALC655.
- 2. Midify driver for some customized settings.
- 3. Add SPILF function for nVidia chipsets.

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- 4. Zero recording data when recording gain is mated. 5. Support independent SPIIF engine for VIA 8233 (Only for newer chipset version).

A3. 41

- 1. Midify driver for some customized settings.
- 2. Support AII SB200 south bridge.
- 3. Support Intel ICH5 south bridge.

A3. 40

- 1. The setting of switching Center/IFE is saved before system is shut down, restored after systemboot պո.
- 2. Fix click noise generated by playing short time wave.
- 3. Fix some problem about AC3 stream for VIA chipset.
- 4. Add some customize settings.

A3.38 -

- 1. Fix some problem for Ali 1563 chipset.
- 2. Set 1 timer to check SPHIF in status for ALC650 ver. F
- Save playback volume value to registry key vhen the mixer is adjusted.
 Combine Cyclic WMdriver and PCI WMdriver.

A3. 37 -

- 1. Update DirectSound 3D Positional Audio Engine to fix some noisy problem for some DirectSound3D game (like Unreal Tournament 2003).
- 2. A3D compatible
- 3. Correct the gain settings of master volume for ALC650 ver. F

A3.36

- 1. Restore AC97REG EXT ALLE O CINL value first when resuming from suspend.

- Nestore ALS/Net_EXTALLOCIAL value first when resuming from suspend Otherwise, Sample rate can't be restored because VRA was not enabled.
 Support 6-bits capability for Mister Volume control if hardware support it.
 Also set GPIO for Jack Sharing with ALC650 ver. E except some special models.
 Add 1 customized settings "Disable 3D Depth Line" to disable 3D Depth mixer Line.

A3 35 -

- 1. change company name from "Avance" to "Realtek".
- add some new ID of notherboard 2
- 3. change some default settings for specific models

A3. 32 -

- compensate the gain for 3D sound when 2 speaker mode was selected.
 support memory I/O for ICH4/ICH5 chipset
 support SPILF AC-3 playback using DirectSound API for ICH4/SiS chipset
- correct DataRange declaration of S/PILF pin to avoid blue screen on Win2000 4. with DirectX 8.1 installed.

A3.30 -

- turn on/off EAPD by GPIO for specific model
 correct EAX initial setting.
- support I3112 interface 3
- 4. fix wake on ring problem
- 5. support DirectSound 3D positional audio by using HRIF algorithm 6. Add "Loudness" control for ALC202/ALC202A.

A3. 29

- 1. Add "S/PUF IN/OUT Pass-Through" mode for specific model
- fix S/PHF-In Realtime menitor noise issue 2
- fully support EAX compatible sound effect 3
- fix \$1 suspend/resume failure problem for some specific model using SiS andio controller only disable "3D depth" line for specific model 4
- 5.
- duplicate analog input source according to output channel mode 6
- support DirectSound hardware acceleration features by default 7.
- fix WinDVD problem when enabling video acceleration 8

A3.26 -

- 1. Inprove compatibility with Agere software modem
- 2. Inprove recording quality when IIE was in PIO mode. 3. Remove 3D Depth mixer line for some models

A3. 23

- 1. Add "Loudness" mixer control for ALC650 front channel.
- Add "SPILF in pass through to SPILF output" option for specific model.
 Remove 3D depth mixer line.
- Inprove compatibility with WinDO 4.0 playing AC3 bit streamthrough DirectSound AP1.
 Inprove recording quality for some specific models.

A3.22 -

1. Support S/PDF-In function for ALC650 ver. E

A3. 21

- 1. Fix Front Mc problem 2. Turn off "Analog input bypass to surround" when enter II mode.
- 3. Change back the default volume of Mister to the middle position.
- 4
- Add "EnableDCVoltageControl" customized option for ALC202/ALC202A. Support customized DirectSound 2D/3D Acceleration (bypass knixer). 5. Add "EnableDS3ILibrary" customized option to enble it. It is turned off by default.
- Add "PreventRegisterReset" customized option for VIA8233. Only ALC201 series and ALC650 series can use "Enable 3.3V support" customized option. 7. For ALC202/A, it is work autometically.
- 8. Reset IMA when change state to Pause for ICH4 to fix HCT DiectSound failure in WinM4.

A3.13 -

- AS 15 -1. To avoid mapping lost on Win985E by raising IRQ level and adding TagCount before get mappings. 2. Disable "Home Line" for some specific models. 3. Inprove S/WSRC (if needed) quality to meet PC99 requirement. 4. Mate SPILF while master volume was mated. 5. Inprove EAX 1.0 compatible issue.

A2. 94

- 1. Midify nixer control for miltichannel output master/front/surround/center/subwoofer line. a. The master volume/mate control will adjust all of front/surround/center/subwoofer volume/mate now to avoid confusion.
- b. The independent front/surround/center/subwoofer line offer volume control to balance the miltichannel output. 2. Support "Front Mc" instead of Mc2.
- 3. Support Center and LFE output swap function.
- Support Center and the output swep function.
 Turn off analog input pass to surround function when suspend.
 To avoid mapping lost on Win988E (it can also fixed by QFE).
 Inprove S/WSRC (if needed) quality to met PC99 requirement.
- 7. Mate SPILF while master volume was mated.

A2.84 -

1. Support ALC650.

A2.82 -

- 1. Support ICH 2. Implement vorkaround for Intel 440MK andio controller
- 3. Set analog CD Maximumvolume to 12dB.

A2. 81

A2.80 -

- 1. Remove "SPILF SRC" Node if turn on "Enable 48K SPILF" option.
- 2. Turn on "Saving LED power" feature for G version 3. Save/Restore AC97 extended registers when Suspend/Resume
- Midify Servie() function for set SPILF Invalid bit.
 Midify data 0 insertion method for SPILF.
 Fix C3/C4 issue.

A2. 73 -

1. Support ALC202A.

A2. 71 -

A2. 70 -1. set CD Maximumvolume to +12dB.

A2.62 -A2. 61 -A2. 60 -

- 1. Fix 484Hz if SPHF SRC was enabled. 2. Fix NI4 driver for IRQ sharing on VIA8233A
- A2.58 -
- 1. Support ALC101.

A2.56 -

- A2.55 -
- 1. update VXD driver for VIA8233A.

A2.53 -

- A2.52 -

- Az. 52 Support VIA8233A audio controller.
 Elininate the PCM noise while playing AC-3 stream through SPIIF-out.
 Power down EAPD when master volume mate.
 Fix HT full duplex unstable problem for VIA8233 audio controller.
 The driver now support only VID/IID/SVID/SSID entry for VHL requirement
- A2.51 -
- A2. 50 -
- Fix HT ACPI stress device I/O test for VIA8233.
 Inprove compatibility with software modem for power management.
- A2. 48 -
- 1. The driver now support the VID/IID entry

A2.46 -

- Add customized options. 1.
- 2. Mate volume when volume slider was adjusted to the bottom
- A2.45 -
- 1. Support ALC201A.
- The driver only support the VID/DD/SVID/SID entry to meet the INF requirement for PCI devices for VHL logo. 2
- A2. 43
- Add SPILF Mate control and SPILF SRC On/Off control. Midify 3D depth control behavior. 1.
- 2 When the slider was adjusted to the bottom the 3D depth will be turned off. Sound Effect Control Panel now installed by setup program
- 3. It will not be installed with INF file.
- 4. AvRack support CD track auto-load function.
- A2. 42 -
- 1. Add Mc2 select control
- Inprove MR card compatibility Change volume default settings 2
- 3.
- A2.40 -
- 1. Enable ALC201 3.3V function (INF optional)
- 2 Auto Power down DAC/ADC (INF optional)
- 3.
- Avoid scandisk problemon some machines Fix HT systemtest for VIA 686 (ACPI / Stress Device I/O) 4
- Change version number to 5.10.00.xxxx for WnXP versioning requirement 5

- 6. Save/Restore recording max setting
 7. Inprove compatibility with PCTel MR card
 8. Fix hang problem while burn in PowerDVD on some machines.
 9. Fix HMViaVoice Mxer problem
 10. Add MC 20dB Boost control on recording MC source line
 11. Add Schematern DD

- 11. Add Subsystem IDs