

VT6107 and VT8231/VT8233/VT8235/VT8237 Integrated LAN Software Package (VIA version) Version: 4.1

1. Major changes in this software packages

1.1. Windows miniport driver support "Wakeup" option in Win2000/XP and Server 2003.

2. Notice

2.1. All the drivers included in this driver package are free for the vulnerability of Ethernet frame padding information leakage issue reported by @stake Inc. in Jan 2003.

2.2. WHQL submission number of the Windows NDISM driver (v3.44) for x86 in this software package is 958730.

2.3. WHQL submission number of the Windows NDISM driver (v3.45) for X64 in this software package is 962662.

3. Detailed change note list

3.1. Drivers

Name	Ver.	Supporting OSes	Location	Note
NDIS3 NDIS4 NDIS5	3.44	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	Root directory	1. Add new SVID/SSID to x86 driver. 2. Use I/O map I/O instead of memory map I/O in WinCE 4/5 driver. 3. Modify INF string %DiskName% to "VIA Fast Ethernet adapter driver disk". 4. Modify the driver to support a new "Wakeup" option and add it to INF file also.
NDIS5 for XP embedded	3.44	Windows XP embedded SP1	\XPe\	5. Modify PCI scan method to support max. 256 buses.
NDIS5 for Windows CE 4.0/4.2	3.44	Windows CE 4.0/4.2	\CE4\	
NDIS5 for Windows CE 5.0	3.44	Windows CE 5.0	\CE5\	
NDIS5 for X64	3.45	Windows XP, Windows Server 2003 X64 Edition	\X64\	
NDIS3F	3.17	Windows For Workgroup 3.11	\WFW311\	1. Windows INF flow control default value change to "disabled". 2. Modify to support scanning max. 256 PCI buses.
NDIS2	4.35	LAN Server DOS Workstations, LANTASTIC, PCNFS, MS DOS 6.22 (MS client 3.0)	\LANSVR40.DOS\ \LANTASTI\ \MSLANMAN.DOS\ \PCNFS\	1. Setting flow control to disable if no initial value is assigned. 2. Don't show the un-authorized adapter in multi-adapter menu. This feature is off in official version. 3. Fixed the bug of share IRQ. 4. Verify Sub Vendor ID is supported. 5. Disable Half-Duplex Mode flow control.

Packet	4.30	MS DOS 6.22 (NCSA Telnet client, PCTCP)	\PKTDRVR\	<ol style="list-style-type: none"> 1. Setting flow control to disable if no initial value is assigned. 2. Don't show the un-authorized adapter in multi-adapter menu. This feature is off in official version. 3. Fixed the bug of setting legacy force mode. 4. Verify Sub Vendor ID is supported. 5. Fixed bug of help menu. 6. Disable Flow control in half-duplex mode.
Server ODI (ASM version)	5.02	Netware Server 3.11, 3.12, 4.11, 4.12	\NETWARE\SRVRODI.311\ \NETWARE\SRVRODI.312\ \NETWARE\SRVRODI.4\	<ol style="list-style-type: none"> 1. No version change in this software package.
Server ODI (C version)	6.09	Client 32 for DOS, Netware Server 5.0, 5.1, 6.0, 6.5	\NETWARE\CLIENT32\ \NETWARE\SRVRODI.56\	<ol style="list-style-type: none"> 1. Fix patch issue. (Strings length need to follow the format) 2. Set default value of "FLOW_CONTROL" to disable.
DOS ODI	4.28	MS DOS 6.22 (Netware client for DOS)	\NETWARE\IDOSDI\	<ol style="list-style-type: none"> 1. Setting flow control to disable if no initial value is assigned. 2. Don't show the un-authorized adapter in multi-adapter menu. This feature is off in official version. 3. Fixed the bug of share IRQ. 4. Verify Sub Vendor ID is supported. 5. Fixed the version bug.
MAC OS	1.07	MAC OS X	\MACOSX\	<ol style="list-style-type: none"> 1. No version change in this software package.
Linux	4.39	Linux x86 Kernel 2.2.x ~ 2.6.x Linux AMD64 Kernel 2.4.x ~ 2.6.9	\LINUX\	<ol style="list-style-type: none"> 1. Change Interrupt service TD/RD from 20 to 32. 2. Enable VT6107 Memory-Read-Multiple function. 3. Fix Fedora Core 3 (kernel 2.6.9) compile failure bug. 4. Add adaptive interrupt function to improve performance. 5. Fix the bug that Rx fail when traffic loading is heavy. 6. Comment VLAN_ID and Tagging in linux.txt with "Management Adapter only".
FreeBSD	3.24	FreeBSD 3.2, 4.0, 4.11, 4.2, 4.5~4.9, 5.0~5.3, 5.2~5.3 AMD64	\FREEBSD\	<ol style="list-style-type: none"> 1. Add LKM(Loadable Kernel Module) driver installation method. 2. Support checksum-offload & VLAN function for VT6105M. 3. Porting to FreeBSD 5.3(Only add <sys/module.h> declaration). 4. Add FLOW_CTRL driver option in if_fet.h and set it to default disabled. 5. Modify if_fet.c Rx service routine condition for heavy traffic Rx disabled bug.
Unixware	2.15	SCO Unixware 7.1, OpenUnix 8	\UNIXWARE\	<ol style="list-style-type: none"> 1. No version change in this software package.
SCO5	4.19	SCO Open Server 5.0.4	\SCO5\	<ol style="list-style-type: none"> 1. Modify driver option flow control default value to "Disable". 2. Modify Rx service routine condition for heavy traffic Rx disabled bug. 3. Add new SVID/SSIDs in VIA version.
Solaris	1.08	Solaris 8, 9, 10	\SOLARIS\	<ol style="list-style-type: none"> 1. No version change in this software package.
DIAG	3.37	MS DOS 6.22	Root directory	<ol style="list-style-type: none"> 1. Modify Chip Type checking method for VT8251 integrated LAN. 2. Modify for using new lib to support scanning max. 256 PCI buses.
Winsetup	3.12	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000,	Root directory, \WINSETUP\	<ol style="list-style-type: none"> 1. Change string table. 2. Do not delete temp file in all case. 3. Set filter while copy source file into local disk. 4. Tolerate winsetup to contain component dll or driver pack.

		WinXP, Windows Server 2003		<ol style="list-style-type: none"> 5. Fill in windows source path in registry into pre ask dialog in 95/98/nt4. 6. Extend wait time for driver installed in nt4 to 5sec instead of 3. 7. Remove sel delete code. 8. Set default series name in progress to NULL. 9. Add quotation marks to parameter of CreateProcess. 10. Keep ntsim2.sys in original folder, and delete it after whole process. 11. Add Adapter En/Disable Function in nt5. 12. Add WaitForSignalObject for child process to terminate. 13. Add multi instance check for winsetup. 14. Change company id fetch method within ntsetup.inf to dynamic load. 15. Don't wait for child process(if any) to return. 16. Remove Uninstallation information from registry(if any). 17. Do not Check INF file while uninstalling except nt4. 18. Fix bug in parameter for windows source. 19. Update vetup.dll to 1.01. 20. Adding VETUP64.DLL to support amd64. 21. Including ntsim2a.sys to support amd64. 22. Support Software-First driver installation in Windows Me/2000/XP/Server 2003. 23. Using CreateProcess instead of WinExec in nt4. 24. Delete ntsim2a.sys. 25. Change local folder to "\\nDrvBase\\vn_<NAMEOFINF>". 26. Add ntsim2a.sys to copy-file list. 27. Set text on progress bar to be unique. 28. Set filter for software first parameter. 29. Add help for software first parameter. 30. Fixed bug unable to delete uninstall information from registry. 31. Change finish dialog for ME while using Software First. 32. Add directive support to Manufacturer / InstallSection / HWID enum. 33. Add InstallSection check in 9X/NT5 environment. 34. Set SourcePath in ME after doing Software-First Install. 35. Make sure name of INF before clear local folder. 36. Change local folder to "\\nDrvBas\\<NAMEOFINF>". 37. Add vetup64.dll to copy-file list. 38. Fix bug of pre-install in ME. 39. Fix bug of Update fail in NT4.
--	--	----------------------------	--	---

3.2. Application utilities for users

Name	Ver.	Supported OSes	Location	Note
NICSET	2.12	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	\\NICSET\	<ol style="list-style-type: none"> 1. Copy/install driver into/from specific location. 2. CoUninstAP (1.03). 3. Miniport driver (3.44).

3.3. Drivers/Utilities for Boot ROM users

Name	Ver.	Supported OSes	Location	Note
Flash	3.14	MS DOS 6.22	\FLASH\	<ol style="list-style-type: none"> 1. Modify flash.txt for 5V flash not supported on VT6105/VT6105M. 2. Modify for using new lib to support scanning max. 256 PCI buses.
RPL-DOS	4.36	Remote boot DOS	\RPL\	<ol style="list-style-type: none"> 1. Fixed the bug on the function for initializing PCI register. 2. Disable Half-Duplex mode flow control.
RPL-W95	4.36/ 3.44	Remote boot Windows 95 Golden	\RPLW95\	<ol style="list-style-type: none"> 1. RPL 4.36. and Miniport 3.44.
PXE	2.41		\PXE\	<ol style="list-style-type: none"> 1. TFTP download of bootfile from DHCP bootfile option(tag 67) would not work unless the option was NULL terminated or followed by a DHCP pad option(tag 0). The original design is wrong. Corrected in this version. 2. Fixed the bug on requesting DHCP server. The PXE continue sending request packet even if the ack packet had arrived. 3. Disable Half-duplex mode flow control. 4. Increasing delay time to 5 seconds when showing prompted message for bootstrap menu.
PXERPL	2.40		\PXERPL\	<ol style="list-style-type: none"> 1. PXE 2.41 and RPL 4.36.

3.4. Drivers/Utilities for manufacture, not to release to users

Name	Ver.	Supported OSes	Location	Note
Ether-debug tool for Windows CE	1.02	Microsoft Windows CE 4.2/5.0	\ETHERTOOL\	<ol style="list-style-type: none"> 1. No version change in this software package.
EEPROM	3.22	MS DOS 6.22	\EEPROM\	<ol style="list-style-type: none"> 1. Modify to add MACID/SSID/SVID checking command-line functions -vm/-vs/-vv. 2. Modify for using new lib to support scanning max. 256 PCI buses.

3.5. MISC

Name	Ver.	Support OSes	Location	Note
UNATTEND	1.00	Windows 9x, NT 4.0, 2000, XP	\UNATTEND\	<ol style="list-style-type: none"> 1. No version change in this software package.

3.6. Application documents

Document	Ver.	Location	Note
NICSET User Guide	1.2	\NICSET\	<ol style="list-style-type: none"> 1. No version change in this software package.