

# VT8231/VT8233/VT8235/VT8237 Integrated LAN Software Package (VIA version) Version: 3.6

## 1. Major changes in this driver packages

- 1.1. Flow control setting rule changed; not check auto-negotiation result in forced flow control mode.
- 1.2. Beta version driver released for supporting AMD64 platform.
- 1.3. Support BBS and INT18 boot option for RPL bootrom.
- 1.4. Support Linux kernel to 2.4.24.
- 1.5. Support OpenUnix 8.0.

## 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.

## 3. Detailed change note list

### 3.1. Drivers

Name	Ver.	Support OSes	Location	Note
NDIS3 NDIS4 NDIS5	3.30	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	Root directory	<ul style="list-style-type: none"> <li>1. Add new SVID/SSID.</li> <li>2. Use new flow control setting rule.</li> <li>3. Fix RPL remote boot Win95 NDIS3 driver issue by adding a new fetnd3r.sys.</li> <li>4. Sync the modification for multi-function device in PCI scan module.</li> <li>5. Sync the MAX_PCI_BUS definition to module library; it should be 6 instead of 4.</li> <li>6. Return product name based on device ID instead of revision number in</li> <li>7. OID_GEN_VENDOR_DESCRIPTION in info.c.</li> <li>8. Fix MACvSaveContext/MACvRestoreContext bug for pause frame sending problem after recovered from stand-by mode.</li> <li>9. Change WINCE 4.x driver name to fetce4b.</li> </ul>
NDIS5 for AMD64	3.30	Windows XP, Windows Server 2003 for AMD64	\AMD64\	<ul style="list-style-type: none"> <li>1. First beta release for AMD64 platform.</li> </ul>
NDIS3F	3.13	Windows For Workgroup 3.11	\WFW311\	<ul style="list-style-type: none"> <li>1. Modify for new flow control setting rule.</li> </ul>
NDIS2	4.28	LAN Server DOS Workstations, LANTASTIC, PCNFS, MS DOS 6.22 (MS client 3.0)	\LANSVR40.D OS\ \LANTASTI\ \MSLANMAN. DOS\ \PCNFS\	<ul style="list-style-type: none"> <li>1. Modified Flow Control setting rule.</li> <li>2. Prevented users from assigning invaild address using the keyword "NetworkAddress".</li> <li>3. Displaying adapter name by Device ID.</li> <li>4. Reducing TD number 16-&gt;8 (for Remote boot Win95 by RPL).</li> </ul>
Packet	4.23	MS DOS 6.22 (NCSA Telnet	\PKTDRVR\	<ul style="list-style-type: none"> <li>1. Fixed the bug of add mac address and prevented user from adding the invalid address.</li> <li>2. Modified Flow Control setting rule.</li> </ul>

		client, PCTCP)		3. Displaying adapter name by Device ID.
Server ODI (ASM version)	4.23	Netware Server 3.11, 3.12, 4.11, 4.12	\\NETWARE\\SR VRODI.311\\, \\NETWARE\\SR VRODI.312\\, \\NETWARE\\SR VRODI.4\\	1. Modify flow control setting rule for "Enable". Only "HD" is auto-negotiation mode. 2. Modify tagging enable message when load driver. 3. Modify flow control cannot enable if previous load is set as "Enable" but this load is set as "Hardware_Default". 4. Show Adapter name by DeviceID rather than RevisionID.
Server ODI (C version)	5.27	Client 32 for DOS, Netware Server 5.0, 5.1, 6.0, 6.5	\\NETWARE\\CL IENT32\\, \\NETWARE\\SR VRODI.56\\	1. Apply new flow control setting rule. 2. Set MAC flow control register in SRCI interrupt. 3. Use standard company short name in LDI file. 4. Display product name by device id instead of revision id. 5. Fix Tx pause timer register write bug.
DOS ODI	4.24	MS DOS 6.22 (Netware client for DOS)	\\NETWARE\\D OSODI\\	1. Modified Flow Control setting rule. 2. Displaying adapter name by Device ID.
Linux	4.32	Linux Kernel 2.2.x ~ 2.4.24	\\LINUX\\	1. Change forced flow control mode definition (don't see the auto-negotiation result). 2. Fix the all 1 interrupt determination bug. 3. Remove the re-auto-free code in rhine_set_media_mode function. 4. Fix the VT86C100A product name. 5. Fix the TX threshold define bug. 6. Fix driver typo (802.1Q). 7. Use device ID to display product name; use revision ID for all the other logic in the driver. 8. Fix rhine_save_context/rhine_restore_context bug(rhine_wol.c) for pause frame sending problem after recovered from stand-by mode. 9. Turn off Pre-ACPI (bit 0 of CFGA) after EEPROM reload. 10. Fix the bug of setting WOLCGClr register. 11. All the access to offset 0xA0~0xA8 are modified to readb/writeb. 12. Fix incorrect condition judgement for revision id in WOL related functions.
FreeBSD	3.17	FreeBSD 3.2, 4.0, 4.11, 4.2, 4.5, 4.6, 4.7, 4.9, 5.0, 5.1	\\FREEBSD\\	1. No change in this version.
Unixware	2.13	SCO Unixware 7.1, OpenUnix 8	\\UNIXWARE\\	1. Modify for new flow control setting rule. 2. Fix bug of small frame padding. 3. Fix bug of N-way auto negotiation. 4. Modify driver module name/version displaying in boot.
SCO5	4.17	SCO Open Server 5.0.4	\\SCO5\\	1. Modify Flow Control setting rule. 2. Add VT6107 SVID/SSID in VIA version.
Solaris	1.07	Solaris 8, 9	\\SOLARIS\\	1. Pre-ACPI bit (bit 0 in CFGA) turned off in driver initialization. 2. Not use FLAGS_CAP_XXXX but use RevID for NIC capabilities judgment.
DIAG	3.30	MS DOS 6.22	Root directory	1. Display "VT6107" in "chip type" field for VT3276. 2. Modify for new PCI scan method for detecting multi-function NIC devices. 3. Sync lib to DIAG114, DRV132, SROM121, TBC116, TPC117, TUI114. 4. Add RamBist test for VT3276.
Winsetup	2.22	Win95, Win95OSR2	Root directory, \\WINSETUP\\	1. No change in this version.

		Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003		
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### 3.2. Application utilities for users

Name	Ver.	Support OSes	Location	Note
NICSET	2.03	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	\NICSET\	1. With miniport driver(3.30), winsetup (2.22), with nicset (2.06), NDIS2 (4.28), DOSODI (4.24).

### 3.3. Drivers/Utilities for Boot ROM users

Name	Ver.	Support OSes	Location	Note
Flash	3.10	MS DOS 6.22	\FLASH\	1. Supports VT3276. 2. Sync lib to DIAG114, DRV132, SROM121, TBC116, TPC117, TUI114.
RPL-DOS	4.31	Remote boot DOS	\RPL\	1. Support VT6107. 2. Showing adapter name by Device ID, and others by Revision ID. 3. Supported Int18 and BEV. 4. Fixed the bug of INT18 and BEV. 5. Fixed the bug of PnP structure definition.
RPL-W95	4.31/ 3.30	Remote boot Windows 95 Golden	\RPLW95\	1. Re-support remote boot Windows 95 Golden from this version.
PXE	2.33		\PXE\	1. Support VT6107. 2. Showing Adapter by Device ID, and others by Revision id. 3. Disable version number in Bootstrap menu.
PXERPL	2.32		\PXERPL\	1. Supported VT6107. 2. PXE 2.33 and RPL 4.31.

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

Name	Ver.	Support OSes	Location	Note
EEPROM	3.17	MS DOS 6.22	\\EEPROM\	<ol style="list-style-type: none"><li>1. Add a device/vendor ID override/un-override back door for VT3276.</li><li>2. -bd# devid : overwrite devid to #th NIC's EEPROM device ID field for VT3276.</li><li>3. -bv# venid : overwrite venid to #th NIC's EEPROM vendor ID field for VT3276.</li><li>4. -bu# : restore #th NIC's EEPROM device/vendor ID field to default for VT3276.</li><li>5. Check if MAC address is an invalid address.</li><li>6. Sync lib to DIAG114, DRV132, SROM121, TBC116, TPC117, TUI114.</li></ol>

### 3.5. MISC

Name	Ver.	Support OSes	Location	Note
UNATTEND D		Windows 9x, NT 4.0, 2000, XP	\\UNATTEND\	<ol style="list-style-type: none"><li>1. Windows 9x, NT4, 2000, XP unattended installation document and sample script file.</li></ol>