VT8231/VT8233/VT8235/VT8237 Integrated LAN Software Package (VIA version) Version: 3.5

Major changes in this driver packages

1. **Provide both MENU and BBS version in \PXE folder.**
2. **Support RPL BEV and INT18 in PXERPL bootrom.**

Notice

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.**

Detailed change note list

Drivers

Name	Ver.	Supporting OSes	Note
NDIS3 NDIS4 NDIS5	3.27	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	1. Add new SVID/SSID. 2. Fix PCI access code bug in upci.h. 3. Modify the driver with the new way for SG/MR determination. 4. Add WinCE environment in driver compilation. 5. Porting to WinCE 4.0/4.2. 6. Modify source code copyright header. 7. Fix hibernate-shutdown wake-up failure in WinXP problem by not restoring Reg_A0/Reg_A2 after hibernate wake-up. 8. Modify WINCE code to make driver configuring AdapterCFID & SlotNumber parms automatically in multi-cards installation.
NDIS3F	3.12	Windows For Workgroup 3.11	1. Modify for VT6105/VT6105M product name change. 2. Use new source code copyright header.
NDIS2	4.25	LAN Server DOS Workstations, LANTASTIC, PCNFS, MS DOS 6.22 (MS client 3.0)	1. Fixed the bug of packet filter. In connecting ghost server, it is failed when using multicast in receive_mode 6. 2. Re-load eeprom data in initialization. 3. Modified keyword "FLOW_CONTROL" to "FLOWCTRL" 4. Added new keyword "NetworkAddress". 5. Fixed the set Multicast address bug of VT3106S.
Packet	4.20	MS DOS 6.22 (NCSA Telnet client, PCTCP)	1. Re-load EEPROM data in initialization.
Server ODI	4.19	Netware Server 3.11, 3.12, 4.11,	1. Change product name, remove "6105" and "6105M".

(ASM version)		4.12	
Server ODI (C version)	5.25	Client 32 for DOS, Netware Server 5.0, 5.1, 6.0, 6.5	1. Fix CRC32 function bug. 2. Use new copyright header. 3. Use new product naming. 4. Fix the driver option display bug while it's unlinked in driver init. 5. Remove the patch code from v5.19 to v5.20 because it will cause TestCON test problem. 6. Add hdetect usage in readme file. 7. Fix the driver initial parameter display bug when cable is connected. 8. Update the readme file for hdetect in Netware 6.5 issue. 9. Place the bug-free hdetect.nlm for Netware 6.5 from Shinewave to the \bin folder.
DOS ODI	4.21	MS DOS 6.22 (Netware client for DOS)	1. Changed product naming. 2. Re-load EEPROM data in initialization.
Linux	4.27	Linux Kernel 2.2.x ~ 2.4.22	1. Refine linux.txt file. 2. Use the new copyright header. 3. Use the new product naming. 4. Fix the driver naming typo. 5. Modify the parameter for MODULE_AUTHOR. 6. Limit minimum RX descriptor number to 64 (fit the PAUSE frame threshold number). 7. Remove the Tx queue full issuing Tx interrupt mechanism from v4.19 because it will cause network freeze if remote site sending packets and local side doing unload/load/ping. 8. Use spin_trylock function instead of spin_lock_irqsave in interrupt service routine. 9. Fix the shared IRQ bug. 10. Skip save/restore MAC offset 0xA0 and 0xA2 because wake-up packet may re-triggers the PME status. 11. Add clean 0xA2/0xA6 register after resume. 12. Remove TxThreshold, RxThreshold and DMA length setting description in linux.txt.
FreeBSD	3.17	FreeBSD 3.2, 4.0, 4.11, 4.2, 4.5, 4.6, 4.7, 4.9, 5.0, 5.1	1. Modify for VT6105/VT6105M product name change. 2. Modify 10/100 NIC FreeBSD driver to re-load EEPROM in driver initialization and add enable_mmio() function for FreeBSD 3.x. 3. Modify freebsd.txt. 4. Modify source code copyright header. 5. Modify mbuf packet header aux field support version range to "FreeBSD 4.1 ~ FreeBSD 4.7".
Unixware	2.10	SCO Unixware 7.1	1. Add new copyright header. 2. Modify for VT6105/VT6105M product name change.

Name	Ver.	Supported OSes	Note
			3. Modify source code copyright header.
SCO5	4.14	SCO Open Server 5.0.4	1. Modify VT6105/VT6105M product name change. 2. Add new SVID/SSIDs in VIA version to sync with NDISM v3.26. 3. Modify source code copyright header.
Solaris	1.05	Solaris 8, 9	1. Modify fets.txt. 2. Modify source code copyright header. 3. Fix system reboot problem after driver installation when NIC shared IRQ.
DIAG	3.24	MS DOS 6.22	1. Hide EEPROM test item in diagnose test on EEP-less platform according to customer's request. 2. Use the new copyright header.
Winsetup	2.22	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	1. Fix message typo.

Application utilities for users

Name	Ver.	Supported OSes	Note
NICSET	2.02	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	1. Update winsetup and NDISM component version.

Drivers/Utilities for Boot ROM users

Name	Ver.	Supported OSes	Note
Flash	3.08	MS DOS 6.22	1. Use the new copyright header.
RPL-DOS	4.26		1. Changed Product Naming. 2. Re-load eeprom data in initialization. 3. Remove compiler option about Device. 4. Use romcksun -devicedid=xxxx to update bootrom binary file. 5. Fixed the bug of system halt when entrying bootstarp menu. 6. Fixed the bug of function about writing bios shadow. It is used in EEPROM-less. 7. Fixed the bug that system halt in some Demo board.
PXE	2.31		1. Fixed multicast bug. 2. Support press F3 entering PXE bootstrap menu. 3. Adjust binary files released directory structure. MENU+BBS -> MENUBBS. 4. Changed Product Naming.

Driver	Ver.		Note
			5. Re-load eeprom data in initialization.
			6. Remove compiler option about Device.
			7. Use romcksum -devicedid=xxxx to update bootrom binary file.
			8. Increasing searching DHCP server and PXE server loop from 1 to 3.
			9. Fixed the bug of bootstrap menu.
			10. Fixed the bug of function about writing bios shadow. It is used in EEPROM-less.
			11. Fixed the bug that system halt in some Demo Bard.
			12. Implemented the PXE standard interface "NICSetStationAddress" and reject the invaild Netword Address(boardcast, multicast, null).
			13. Fixed the bug that showing error adapter name pxeb.nic.
			14. Updated directory structure and file name.
PXERPL	2.28		1. Remove compiler option about Device.
			2. Use romcksun -devicedid=xxxx to update bootrom binary file.
			3. Fixed the bug of bootstrap. If user boot from RPL in the perious boot, and doesn't entry bootstrap menu in this, system should be boot from RPL. But it boot from PXE.
			4. Fixed the bug of function about writing bios shadow. It is used in EEPROM-less.
			5. Fixed the bug that system halt in some Demo Board.
			6. Supported Bev and Int18 on RPL.

Drivers/Utilities for manufacture, not to release to users

Driver	Ver.	Supported OSes	Note
EEPROM	3.15	MS DOS 6.22	1. Use the new copyright header.