

## **VT6120/VT6122 Software Package (VNT version): 2.0**

### **1. Major changes in this software packages**

- 1.1. New support for CE .NET 4.0/4.2 driver.**
- 1.2. New support for CE .NET 4.2 ether-debug tool.**
- 1.3. New support for XP embedded driver.**
- 1.4. New support for MAC OS X driver.**
- 1.5. Multi-language support in winsetup utility; 13 languages are supported including Danish, Dutch, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, English, Simplified Chinese, Spanish, Traditional Chinese.**
- 1.6. Provide “WinUinst” utility for driver remove within winsetup utility folder.**
- 1.7. Remove EEPROM layout guide, EEPROM-less porting guide, Mass production guide and Programming guide documents from regular software package release.**

### **2. Notice**

- 2.1. All the drivers included in this software 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 (v1.29) for x86 in this software package is 824865.**

### 3. Detailed change note list

#### 3.1. Drivers

Name	Ver.	Supporting OSes	Location	Note
NDIS 3/4/5 for x86	1.29	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	Root directory	1. Fix AI enable/disable judgement mechanism when link speed change. 2. Fix Tx-AI engage criteria. 3. VT3284 can read MAC register EESWDAT directly. 4. Add MACvSetColRetry function to set Tx collision abort retry count. Can set by using registry in the future. 5. Set Tx collision retry to 48 for NDISTEST 4.03.0055 and later. 6. Refine RD return mechanism. 7. Fix return Tx status code. 8. Before into D1~D3, if NIC is link-down, add Re-Auto step to prevent link speed error after wake-up. 9. Add set DescAddrHi32 and DataBufAddrHi16 for /PAE /nolowmem mode.
NDIS5 for AMD64	1.29	Windows XP, Windows Server 2003 for AMD64	\AMD64\	10. Add "MRDPL" registry to enable Memory-Read-Multiple function to improve tx performance, default is disabled to prevent 4G memory issue.
NDIS5 for XP embedded	1.29	Windows XP embedded SP1	\XPe\	11. Fix WinCE debug message error. 12. Fix MiniportHalt() wait for packet return issue. 13. Fix NDISTEST 1c_InitTime warning in NDIS5.1. 14. Remove "VT6121" in cec file of WinCE.Net.
NDIS5 for CE .NET 4.0/4.2	1.29	Windows CE .NET 4.0/4.2	\CE4\	
NDIS3F	1.26	Windows For Workgroup 3.11	\WFW311\	1. Add MACvSetColRetry function to set Tx collision abort retry count. 2. Refine RD return mechanism.
NDIS2	1.06	LAN Server DOS Workstations, LANTASTIC, PCNFS, MS DOS 6.22 (MS client 3.0)	\LANSVR40.DOS\ \LANTASTI\ \MSLANMAN.DOS\ \PCNFS\	1. No version change in this software package.
Packet	1.08	MS DOS 6.22 (NCSA Telnet client, PCTCP)	\PKTDRVR\	1. No version change in this software package.
Server ODI (ASM version)	1.09	Netware Server 3.11, 3.12, 4.11, 4.12	\NETWARE\SRVRODI.311\ \NETWARE\SRVRODI.312\ \NETWARE\SRVRODI.4\	1. No version change in this software package.
Server ODI (C version)	1.17	Client 32 for DOS, Netware Server 5.0, 5.1, 6.0, 6.5	\NETWARE\CLIENT32\ \NETWARE\SRVRODI.56\	1. Fix the incorrect error handling of LSTEL. 2. Fix the incorrect update mechanism of RBRDU. 3. Add error handling on the initial RCB allocation. 4. Change the RCB return mechanism in DriverISR routine. 5. Add limitation of the TXSQE MIB counter indication patch code. 6. Change flow control low/high threshold from 24/64 to 24/48. 7. Change default RD number to 128, Rx buffer size to 1536.

				8. Make vUpdateRDList, vChkLTSAPOK and vChkRxHCSStatus to be inline function and refine those functions. 9. Remove unused patch code for VT3119A0. 10. Fix TX error status determination. 11. Increase media specific counter TxAbortCarrierSense when TX packet was serviced during link down.
DOS ODI	1.10	MS DOS 6.22 (Netware client for DOS)	\NETWARE\DOSODI\	1. No version change in this software package.
MAC OS	1.03	MAC OS X	\MACOSX\	1. First release for MAC OS X.
Linux	1.13	Linux Kernel 2.2.x ~ 2.4.24	\LINUX\	1. Change forced flow control option definition (don't see auto-negotiation result). 2. Not compile VMNS code by default in Makefile. 3. No drop RL and CE error frame in default. 4. Change minimum RX descriptor number to 64. 5. Fix driver option bug in getting option flags. 6. Refine readme file and fix the syntax errors. 7. Change function name enable_flow_control to init_flow_control_register and use readl/writel instead of read-modify-write in flow control register access. 9. Fix the TXSQErr error patch code bug from 1.09.
FreeBSD	1.08	FreeBSD 3.2, 4.0, 4.11, 4.2, 4.5, 4.6, 4.7, 5.0	\FREEBSD\	1. No version change in this software package.
Unixware	1.11	SCO Unixware 7.1	\UNIXWARE\	1. No version change in this software package.
SCO5	1.10	SCO Open Server 5.0.4, 5.0.6	\SCO5\	1. No version change in this software package.
Solaris	1.09	Solaris 8, 9	\SOLARIS\	1. No version change in this software package.
DIAG	1.28	MS DOS 6.22	Root directory	1. Modify PHY Termination test. 2. Modify Network test Master/Slave counter UI to include Tx/Rx fails according to QA team's request. 3. Modify cable link test procedure.
Winsetup	2.24	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	Root Directory, \WINSETUP\	1. Fix message typo. 2. Add support of multi language. 3. Add WinUinst to perform remove operation only. 4. Remove parameter process from WinUinst. 5. Fix some string display error. 6. Turns sub lang id of Spanish to Modern. 7. Change font on dialog to system. 8. Resolve the need to double switch CDs. 9. Change some sub lang id to be the same as foreign OS within MSDN. 10. Fix bug that copyfile in WinUinst caused access violation.

### 3.2. Application utilities

Name	Ver.	Supported OSes	Location	Note
GigaCheck	2.07	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	\GigaCheck\	1. Update miniport driver(1.29) and winsetup (2.24).
DMI-GE	1.10	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	\DMI-GE\	1. Update miniport driver(1.29) and winsetup (2.24).
VSNMP-GE	1.11	Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	\VSNMP-GE\	1. Update miniport driver(1.29) and winsetup (2.24).

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

Name	Ver.	Supported OSes	Location	Note
Flash	1.05	MS DOS 6.22	\FLASH\	1. No version change in this software package.
RPL-DOS	1.16		\RPL\	1. Added <ESC> to cancel network-boot procedure. 2. Added Enhanced bootstarp menu. 3. Added warning message for wrong strapping of eeprom-less.
PXE	1.15		\PXE\	1. Fixed the bug in bootstrap menu. 2. Showed error message if there are some problems in strapping for eeprom-less.
PXERPL	1.13		\PXERPL\	1. PXE 1.15 and RPL 1.16.

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

Driver	Ver.	Supported OSes	Location	Note
Ether-debug tool for CE .NET	1.00	Microsoft CE .NET 4.2	\ETHERTOOL\	1. First release for Windows CE .NET 4.2.
EEPROM	1.08	MS DOS 6.22	\EEPROM\	1. No version change in this software package.

### 3.5. MISC

Name	Ver.	Support OSes	Location	Note
UNATTEND	1.02	Windows 9x, NT 4.0, 2000, XP	\UNATTEND\	1. No version change in this software package.

### 3.6. Application documents

Document	Ver.	Location	Note
GigaCheck User Guide	1.60	\GigaCheck\	1. Remove “VT6121” from product list. 2. Change support adapter name.
DMI-GE User Guide	1.40	\DMI-GE\	1. Remove “VT6121” from product list. 2. Change support adapter name. 3. Change legends.
VSNMP-GE User Guide	1.50	\VSNMP-GE\	1. Remove “VT6121” from product list. 2. Change support adapter name.