

# VT6110/VT6120/VT6121/VT6122 Software Package (VNT version): 1.1

## Major changes in this driver packages

1. Chip Product naming changed to "VIA Networking Velocity Gigabit Ethernet Adapter".
2. Product naming of NICSET-GE changed to "GigaCheck".
3. Release both menu and BBS PXE image in \PXE folder.

## 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.

## Drivers

Name	Ver.	Supporting OSes	Note
NDIS3 NDIS4 NDIS5	1.18	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	<ol style="list-style-type: none"> <li>1. Skip delay 15ms for SROM embedded write after VT3216A0.</li> <li>2. Tx count per WAK can be set by registry, default is 8.</li> <li>3. TQETMR/RQETMR can be set by register, default is 100us/20us.</li> <li>4. Patch hardware MIB TXSQEErr bug.</li> <li>5. Add check RD number code, it must be 4X and max 252 before VT3216A0.</li> <li>6. Fix Set MCAM Mask bug in MACvSetPacketFilter().</li> <li>7. Fix OID_CUSTOM_RXDROPFRAMES content.</li> <li>8. Change TD/RD default number from 16/64 to 128/128.</li> <li>9. NT4 uses new NTUTIL.DLL to set RD number.</li> <li>10. Change "Rhine-GE" string in all product names to "Velocity".</li> <li>11. Tx task offload default is changed to "Tx Checksum and TCP Large Send".</li> <li>12. Rx checksum offload default is enabled.</li> <li>13. Add NDIS2 support.</li> </ol>
NDIS3F	1.19	Windows For Workgroup 3.11	<ol style="list-style-type: none"> <li>1. Patch hardware MIB TXSQEErr bug.</li> <li>2. Add check RD number code, it must be 4X and max 252 before VT3216A0.</li> <li>3. Fix Set MCAM Mask bug in MACvSetPacketFilter().</li> <li>4. Change "Rhine-GE" string in all product names to "Velocity".</li> <li>5. Remove 2 registries: EarlyReceive and EarlyTransmit.</li> <li>6. Fix bug of removing EarlyReceive and</li> </ol>

			EarlyTransmit registry.
NDIS2	1.05	LAN Server DOS Workstations, LANTASTIC, PCNFS, MS DOS 6.22 (MS client 3.0)	
Packet	1.07	MS DOS 6.22 (NCSA Telnet client, PCTCP)	<ol style="list-style-type: none"> <li>1. Patch TXSQError Counter Issue.</li> <li>2. Change product name.</li> <li>3. Fixed the bug of flow control configuration.</li> </ol>
Server ODI (ASM version)	1.08	Netware Server 3.11, 3.12, 4.11, 4.12	
Server ODI (C version)	1.10	Client 32 for DOS, Netware Server 5.0, 5.1, 6.0, 6.5	<ol style="list-style-type: none"> <li>1. Remove FETANS_SUPPORT compiler option related codes.</li> <li>2. Fix the CRC32 function bug in tsrc.c.</li> <li>3. Update for Velocity product name.</li> <li>4. Add patch code for TXSQ MIB counter indication in non-10HD mode.</li> <li>5. Add code to clear all back-off algorithm in CFGB in driver init.</li> <li>6. Fix the driver option display bug while it's unlinked in driver init.</li> <li>7. Remove the patch code from Rhine ODI C v5.19 to v5.20 because it will cause TestCON test problem.</li> </ol>
DOS ODI	1.09	MS DOS 6.22 (Netware client for DOS)	<ol style="list-style-type: none"> <li>1. Patch TXSQError Counter Issue.</li> <li>2. Change product name.</li> </ol>
Linux	1.09	Linux Kernel 2.2.x ~ 2.4.22	<ol style="list-style-type: none"> <li>1. Adopt the new product name (Velocity).</li> <li>2. Replace "Rhine" to "Velocity" in all the source files.</li> <li>3. Refine linux.txt file (remove threshold and DMA length parameter description).</li> </ol>
FreeBSD	1.07	FreeBSD 3.2, 4.0, 4.11, 4.2, 4.5,4.6,4.7, 5.0	<ol style="list-style-type: none"> <li>1. Modify product name "Rhine-GE" to "Velocity".</li> <li>2. Modify for VT3119A0 TXSQError Counter Issue.</li> </ol>
Unixware	1.09	SCO Unixware 7.1	<ol style="list-style-type: none"> <li>1. Modify for VT3119A0 TXSQError Counter Issue.</li> <li>2. Modify for VT3119A0 TXSQError Counter Issue.</li> <li>3. Modify source code copyright header for company name change.</li> </ol>
SCO5	1.08	SCO Open Server 5.0.4, 5.0.6	<ol style="list-style-type: none"> <li>1. Modify product name "Rhine-GE" to "Velocity".</li> <li>2. Modify for VT3119A0 TXSQError Counter Issue.</li> <li>3. Modify source code copyright header for company name change.</li> </ol>
Solaris	1.08	Solaris 8, 9	<ol style="list-style-type: none"> <li>1. Modify product name "Rhine-GE" to "Velocity".</li> <li>2. Modify for VT3119A0 TXSQError Counter Issue.</li> <li>3. Modify source code copyright header for company name change.</li> <li>4. Modify flow control options to sync with other</li> </ol>

			drivers.
DIAG	1.14	MS DOS 6.22	<ol style="list-style-type: none"> <li>1. Modify Chip Type of "VT6120" to "VT6120/VT6122".</li> <li>2. Modify IEEE test function according to system team's spec.</li> <li>3. Modify product name "Rhine-GE" to "Velocity".</li> <li>4. Use Lib ver. 1.10, Inc ver. 1.09.</li> </ol>
Winsetup	2.20	Win95, Win95OSR2, Win98, Win98SE, NT3.51, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	

#### Application utilities for users

Name	Ver.	Supported OSes	Note
GigaCheck	2.03	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	<ol style="list-style-type: none"> <li>1. Change company &amp; product name.</li> <li>2. Change UI.</li> <li>3. Update new NDISM driver and NDIS2 driver.</li> </ol>
DMI-GE	1.08	Win95, Win95OSR2, Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	<ol style="list-style-type: none"> <li>1. Change company name.</li> <li>2. Update new NDISM driver and NDIS2 driver.</li> </ol>
VSNMP-GE	1.09	Win98, Win98SE, NT4.0, WinME, Win2000, WinXP, Windows Server 2003	<ol style="list-style-type: none"> <li>1. Fix bug that extension agent can't find adapter on win nt4(For some platform such as some intel chipset, this function will be still failed until combined with next version miniport driver.)</li> <li>2. Change Company name.</li> <li>3. Update new NDISM driver and NDIS2 driver.</li> </ol>

#### Drivers/Utilities for Boot ROM users

Name	Ver.	Supported OSes	Note
Flash	1.03	MS DOS 6.22	
RPL-DOS	1.10		<ol style="list-style-type: none"> <li>1. Patch TXSQEError Counter Issue.</li> <li>2. Change product name.</li> </ol>
PXE	1.11		<ol style="list-style-type: none"> <li>1. Patch TXSQEError Counter Issue.</li> <li>2. Change product name.</li> </ol>
PXERPL	1.08		<ol style="list-style-type: none"> <li>1. PXE v1.11 combines with RPL v1.10</li> <li>2. Patch TXSQEError Counter Issue.</li> <li>3. Change product name.</li> </ol>

**Drivers/Utilities for manufacturers, not to release to users**

Driver	Ver.	Supported OSes	Note
EEPROM	1.05	MS DOS 6.22	

**Application documents for users**

Document	Ver.	Note
GigaCheck User Guide	1.10	1. Update product naming and legends in the user guide.
DMI-GE User Guide	1.00	
VSNMP-GE User Guide	1.20	

**Documents for manufacturers**

Document	Ver.	Note
EEPROM Layout	1.02	
EEPROM-less Porting Guide	1.11	1. Add EEPROM loading path strapping data.
Mass Production Guide	1.50	
Programming Guide	1.10	