



VL700 Firmware Release Note

03/16/2011

The release number is "R01.00.**01**.12"

Note: This is a special release to support customer firmware spindle down control

1. Fix bug that VL700 can't support UDMA5 or higher
 2. Add spindle down feature when USB bus is disabled or plug out
 3. Fix issue when HDD size over than 2TB
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01/20/2011

The release number is "R01.00.**08**.11"

Note: This is a special release to support customer virtual disc function

1. Special F/W R01.00.08.11 that support virtual disc function
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01/17/2011

The release number is "R01.00.00.12"

1. Fixed the issue that 3.5" HDD can't spindle down after U3 (PC power off or suspend)
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11/08/2010

The release number is "R01.00.00.11"

1. Fixed VL700 self power test fail when using new NEC driver (R2.0.26.0), including device not found when cold boot, device not found when repeated plug in/out, device down to USB2.0 when repeated plug in/out, and S3/S4 fail when resume
 2. Solve CV 0.9.8.5 test fail
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10/20/2010

The release number is "R01.00.**02**.10"

Note: This is a special release to fix new Renesas host driver compatibility issue

1. Fixed VL700 self power test fail when using new NEC driver (R2.0.26.0), including HDD not found when cold boot, device not found when repeated plug in/out, and device down to USB2.0 when repeated plug in/out.
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08/23/2010

The release number is "R01.00.**01**.10"

Note: This is a special release to meet customers' ATA command pass through
Storage Retention: No expiration date

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1. Fixed HDD can't go into spindle down when use ATA IDLE command(0xE3) with a Timer period value by ATA command pass through

08/20/2010

The release number is "R01.00.00.10"

1. Fixed HDD can't go into spindle down when set timer by StorageTool(Smart Power)
2. Add ATA command (ATA_COMMAND_STANDBY_IMME and ATA_COMMAND_IDLE) for supporting customer's application

08/03/2010

The release number is "R01.00.00.09"

1. Fixed can not quickly go to wait USB cable connect state after USB plug out
2. Fixed SS port RX terminal resister is always ON issue
3. Fixed SATA hot plug/unplug fail issue when attached to HOST through VL810

07/20/2010

The release number is "R01.00.00.08"

1. Support storing CIS information to EEPROM 93C56 256bytes
2. Fixed the compatibility issue with Fresco HOST
3. Fixed link issue when linking to Fresco HOST through VL810
4. Add vli_memset, vli_memcpy, vli_strncmp, vli_strncpy and vli_int_memcpy for multiple call issue
5. Fixed S3/S4 fail issue when use HDD ST3200064A1 2TB
6. Add ATA SMART command set support
7. Patch for UAS/UASP support
8. Support HDD size more than 2TB
9. Add breathing LED support
10. Add write protect function by GPIO7 support
11. Add option for forcing to USB2.0 mode by GPIO4
12. Improve SATA compatibility by changing register settings
13. Fixed SSD (Size < 16G) fail issue (Read Capacity data incorrect when HDD doesn't support LBA48)
14. Fixed OS can't found VL700 when plug out/in after Safe Remove
15. Modify suspend/resume/set feature for CV 0.9.7.8 /CV 0.9.8.0
16. Fixed MPTool can't find VL700 when connecting an ODD (CD/DVD ROM)

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17. Fixed USB3.0 power mode U3 interrupt miss issue
18. Fixed customer ODD write test tool fail issue and support E-Green tool and ODD tray in/out request
19. Add customer ATA short pass through command and support ATA 0xF0~0xF4 eject/change password/erase/remove password command
20. Improve the responding time for USB3.0 link start
21. Shorten SATA initial time when USB plug in

05/20/2010

The release number is "R01.00.00.06"

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1. Fix SATA 6Gb/s HDD compatibility issue
 2. Workaround power on sequence to meet NEC USB3.0 Host bus detection behavior
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05/14/2010

The release number is "R01.00.00.03"

Note: VL700 A3 has to use F/W R01.00.00.03 or newer version.

1. Fix SPI flash program twice issue
 2. Support 3rd-party USB turbo driver with large CBW data length
 3. Fix SATA hot-plug compatibility issue when VL700 attached under USB3.0 Hub VL810
 4. Enhance response time of SET ADDRESS for better host driver compatibility
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04/30/2010

The release number is "R01.00.00.02"

Note: Change file format from .txt file to .pdf file

1. Enable ATA SMART ENABLE Command
 2. Add ATA Pass through command
 3. Support 3T HDD or up
 4. Fix hot-plug ATA problem
 5. Add ODD support
 6. Modify USB3.0 PHY parameters
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04/08/2010

The release number is "R01.00.00.00"

Formal release, version change to R01.xx.xx.xx

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1. Disable power mode U1/U2 since NEC host driver doesn't support it yet. To avoid compatibility issue in future, disable this power mode until NEC host driver enabled and tested OK
2. Support MXIC Flash
3. Fix random enumeration fail on Fresco host
4. Add option for power mode U1/U2 enable can select by CIS in SPI flash
5. Fix HDD Tune/Sandra test fail issue

03/09/2010

The release number is "R00.00.12.15"

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1. Support EUP function & power management (HDD spindle down & HDD power-off)
 2. Solve USB port plug/unplug compatibility issue
 3. Fix FW download fail in USB3.0 mode issue
 4. Fix Copy compare then Stand by(S3) system hang up issue
 5. Add CACC_flag recover for accelerate hang when USB3.0 repeat plug in/out with a SSD
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02/01/2010

The release number is "R00.00.12.09"

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1. Fix some SSD can't work
 2. Correct the virtual disk label
 3. Add CIS check sum process
 4. Fix the SATA plug in/out unstable issue
 5. Fix and pass the CV 9.5
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01/06/2010

The release number is "R00.00.12.06"

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1. Initial Release
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