

Proware Technology Corp.
 Technical Support Team
 Firmware Release Notes

Model: SAS to SAS /SATA Dual 12/16/42 CHL (Intel 81341)
For: SB-3163D-S3S3 / EP-2123D-S3S3 /EP-3163D-S3S3 /
EP-2243D-S3S3 / EP-4423D-S3S3 series.

Important notes:

- 1. Please update BOOT module first.**
 - (1) Upgrade Boot module: 8360BOOT-xxxxx.bin**
 - (2) Upgrade firmware: 8360-xxxxxx.bin**

	Last Version	New Version
Version	1.48DC 2010-04-27	1.49 2010-12-10
Boot Code Version	1.48 2010-01-12	1.49 2010-12-10
Release Date	May 24, 2010	APR 15, 2011
New	<ol style="list-style-type: none"> 1. Add disk power cycle function. 2. Add display "ENC#3 SES2device" timeout if SES2 service timeout. 3. Add displayed other controller status at system information. 	<ol style="list-style-type: none"> 1. Add Rename Raid Set Function. 2. Add Display Error Recovery Control Status of SATA HDD. 3. Add SMART Fan Disabled Control. 4. Add Support for Mail Greet Pause, Use Different tcp_send Timeout Value. 5. Add NEW_MAIL_ALERT_CONFIG to Support Different Mail Alert Configuration for Different Mail Account.

Fixed	<ol style="list-style-type: none"> 1. Fixed other controller boot up after halt when configuration is differential 2. . Fixed some status controller hang up problem. 	<ol style="list-style-type: none"> 1. Fix Report Lun Command to Exclude FAILED and FOREGROUND Initialize Volume. 2. Fix when Many Volumes is Created for RAID6 and Failed Two Drive, Some Volume May Still NEED_REBUILD and REBUILDING Status. 3. Fix When Expansion Raid Set and Target Disk Failed, After Migration Paused and Controller Restarted, The Migration Halted. 4. Fix Removing of Failed Slot HDD Hang the System. 5. Fix Raid Set Activate Problem for Rebuilding Percentage. 6. Fix SNMP Service Break Problem. 7. Fix inBand Problem 8. Fix SAS SPC3 Compliance
Modification	<ol style="list-style-type: none"> 1. Modified online restart controller function at dual operation mode. 2. Improve RAID 1 read performance. 	<ol style="list-style-type: none"> 1. Improve Support 6G Expander Connections 2. Improve SAS More then 2TB HDD Support. 3. OPTIMIZE_HD_EDIT is removed in Dual CONTROLLER,
Removed		