

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**
 - (3) Upgrade MBR firmware: 8360MBR0-xxxxxxxxx.bin**

	Last Version	New Version
Firmware Version	1.49 2010-12-10	1.50 2012-01-16
Boot Code Version	1.49 2010-12-10	1.50 2012-01-16
MBR version		1.50 2012-01-16
Release Date	APR 15, 2011	JUL 5, 2012
New	<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. 	<ol style="list-style-type: none"> 1. Add [Alert By Mail Configuration] to Telnet & RS-232. 2. Add Slot Information of SATA HDD Rotation Rate Display.

Fixed	<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 	<ol style="list-style-type: none"> 1. Resolve When Heavy Load to Restart CTRL will Happen DC Sync Channel Time Out Error Problem. 2. Resolve Restart Controller Problem of Setup Data Mismatch 3. Resolve when Device Failed happen then CTRL Failed Issue 4. Resolve Watchdog Time Out Then CTRL Kick Out Problem 5. Resolve Timeout Problem of 3TB HDD 6. Resolve Intel 320 Series SSD (0362) + LSI9252 SAS2 Bridge Into Slot Information Device Failed Happened. 7. Resolved On-Line Change Volume Set Cache Mode Problem. 8. Resolved Raid 50/60 Background Initializing Performance with Host Access. 9. Resolved Foreground Initialize Display Percentage Error.
Modification	<ol style="list-style-type: none"> 1. Improve Support 6G Expander Connections 2. Improve SAS More than 2TB HDD Support. 3. OPTIMIZE_HD_EDIT is removed in Dual Controller. 	<ol style="list-style-type: none"> 1. Enhance SNMP Protocol. 2. Improve Volume Set Write Through Rebuild Performance.
Removed		<ol style="list-style-type: none"> 1. Remove Firmware Special Version Displayed.