

**UNIFOSA Corp.**  
**Technical Support Team**  
**Firmware Release Notes**

**Model: SASIII to SASII /SASIII /SATAIII 12/16/24/64 CHL  
(LSI 3108 Roc 1200MHz)**

**For: EP-2123S2(D2)-SCSC(S6) / EP-3163S2(D2)-SCSC(S6) /  
EP-2243S2(D2)-SCSC(S6) / EP-4643S2(D2)-SCS6 /  
EP-4643S2(D2)-SCSC series.**

**Important notes:**

- 1. Please update BOOT module first.**
  - (1) Upgrade Boot module: 8380BOOT-xxxxx.bin**
  - (2) Upgrade firmware: 8380-xxxxxx.bin**
  - (3) Upgrade MRB firmware: 8380MBR0-xxxxxxxxx.bin**
  - (4) Upgrade ARC-8008 Expander firmware:8018-xx.xx.xx.xx-xxxxxxxxx.fw**
  - (5) Upgrade ARC-8008 MFG Data firmware: 8018-mfgdat12gN-xxxxxxxxx.dat**
  - (6) Upgrade PRO-8008 Expander firmware:4038-xx.xx.xx.xx-xxxxxxxxx.fw**
  - (7) Upgrade PRO-8008 MFG Data firmware: 4038-mfgdat-xxxxxxxxx.dat**
  - (8) Upgrade EP-4643 (6Gb/s) Expander firmware:8016-x.xx.xx.xx-xxxxxxxxx.fw**
  - (9) Upgrade EP-4643 (6Gb/s) MFG Data firmware: 8016-mfgdat6g-xxxxxxxxx.rom**
  - (10) Upgrade EP-4643 (12Gb/s) Expander firmware: 4U64\_vxxx.fw**
  - (11) Upgrade EP-4643 (12Gb/s) MFG Data firmware: 4U64\_mfg\_xxxxxxxxx.bin**

	<b>Last Version</b>	<b>New Version</b>
<b>Controller Version</b>	1.56-2019-07-30	1.56-2020-05-14
<b>Boot Code Version</b>	1.56-2019-07-30	1.56-2020-05-14
<b>MBR Version</b>	1.56-2019-07-30	1.56-2020-05-14
<b>ARC-8008 Expander Version</b>	8018-03.01.31.605-20170426	8018-03.01.31.605-20170426
<b>ARC-8008 Expander MFG Data Version</b>	8018-Mfgdat12gN-20170123	8018-Mfgdat12gN-20170123

<b>PRO-8008 Expander Version</b>	4038-03.03.03.28-20180821	4038-03.03.03.28-20180821
<b>PRO-8008 Expander MFG Data Version</b>	4038-Mfgdat-20180627	4038-Mfgdat-20180627

<b>EP-4643(6Gb/s) Expander Version</b>	8016-14.BD.00.09-20121017	8016-14.BD.00.09-20121017
<b>EP-4643(6Gb/s) Expander MFG Data Version</b>	8016-mfgdat6g-20150608	8016-mfgdat6g-20150608

<b>EP-4643(12Gb/s) Expander Version</b>	014	014
<b>EP-4643(12Gb/s) Expander MFG Data Version</b>	4U64_mfg_20180927	4U64_mfg_20180927

<b>Release Date</b>	NOV 01, 2019	MAY 28, 2020
<b>New</b>	<ol style="list-style-type: none"> <li>1. Add progress % for some http operation.</li> <li>2. Support new Controller for EP-4643S2/D2-SCSC.</li> </ol>	<ol style="list-style-type: none"> <li>1. Support new IC FLASH MX29GL128FDT2I-11G.</li> </ol>
<b>Fixed</b>	<ol style="list-style-type: none"> <li>1. Fix Apple Safari problem.</li> <li>2. Fix encrypted volume not show up after key file is loaded in Linux.</li> <li>3. Fix SATA HDD/SSD without EPC support, does not show HDD temperature.</li> <li>4. Fix dual controller with HDD failed non-synced problem.</li> <li>5. Dual controller, if ctrl#1 record failed, and ctrl#2 ok will result in HDD mismatch.</li> </ol>	
<b>Modify</b>	<ol style="list-style-type: none"> <li>1. Up to 4 PETA bytes per volume supported (up to 128TB per disk).</li> <li>2. Improve FAIL_DRIVE_IF_MANY_ERROR</li> </ol>	
<b>Remove</b>	<ol style="list-style-type: none"> <li>1. Remove Getting Slot Number from SMP Slot Information (Cause Problem when Mixed with 6G Expander).</li> </ol>	