Release Note for AIC SAS 6G Thunderbolt 4U24 Expander

#### Jul 04, 2014

## Changelog

07/04/2014 (firmware 1.11.4.7 + mfg 1.4.0.4) - Part Number (B98-00XUXXE3110407 + B98-00XUXXG3040004) Old Part Number B98-00XUXXG3040003 is replaced by B98-00XUXXG3040004. 1. Resolve the drive mapping issue in Windows with SAS 12G HBA

- 08/07/2013 (firmware 1.11.4.7 + mfg 1.4.0.3) Part Number (B98-00XUXXE3110407 + B98-00XUXXG3040003) Old Part Number B98-00XUXXE3110405 is replaced by B98-00XUXXE3110407.
  1. While setting "RQST Insert" or "RQST Remove" in Array Device Slot control element, the respective bit can not be found in Array Device Slot status element
  2. Resolve the temperature = -1 degree of Celsius while Bridge PIC can not read from the temperature sensor

  - sensor
  - 3. Stop issuing Backplane I2C reset while accessing I2C
- 05/10/2013 (firmware 1.11.4.5 + mfg 1.4.0.3) Part Number (B98-00XUXXE3110405 + B98-00XUXXG3040003) Old Part Number B98-00XUXXE3110404 is replaced by B98-00XUXXE3110405.
  - 1. SES String Out page supports 47-bytes and 48-bytes format
- 05/08/2013 (firmware 1.11.4.4 + mfg 1.4.0.3) Part Number (B98-00XUXXE3110404 + B98-00XUXXG3040003) Old Part Number B98-00XUXXE3110403 is replaced by B98-00XUXXE3110404. 1. Add firmware revisions of Backplane PIC and Bridge PIC in SES String In page

  - 2. Add Backplane fan RPM in SES String In page
  - 3. Add the control of Backplane fan and force poweroff in SES String Out page 4. Add an error count for data timeout monitored by expander

# 05/06/2013 (firmware 1.11.4.3 + mfg 1.4.0.3) - Part Number (B98-00XUXXE3110403 + B98-00XUXXG3040003) Old Part Number B98-00XUXXG3040001 is replaced by B98-00XUXXG3040003.

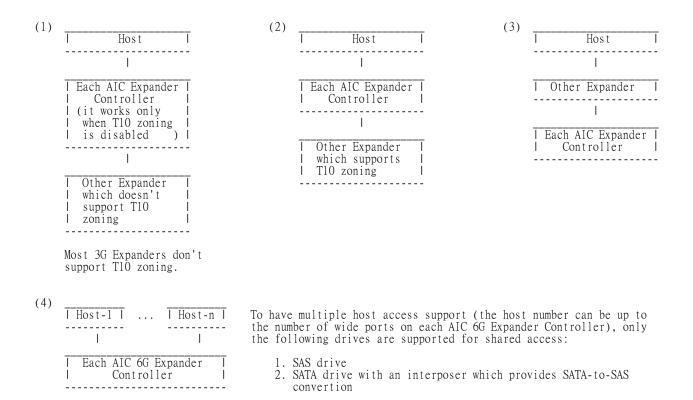
- 1. Signal tuning.
- 02/25/2013 (firmware 1.11.4.3 + mfg 1.4.0.1) Part Number (B98-00XUXXE3110403 + B98-00XUXXG3040001) Old Part Number B98-00XUXXE3110402 is replaced by B98-00XUXXE3110403. 1. Enable SES page 0x04 and 0x80. This issue is introduced in firmware 1.11.4.2.
- 02/19/2013 (firmware 1.11.4.2 + mfg 1.4.0.1) Part Number (B98-00XUXXE3110402 + B98-00XUXXG3040001) Old Part Number B98-00XUXXE3110401 is replaced by B98-00XUXXE3110402.
  - 1. Resolve the issue, the activity LED of the drive is still on when the power of the drive slot is turned off.

12/22/2012 (firmware 1.11.4.1 + mfg 1.4.0.1) - Part Number (B98-00XUXXE3110401 + B98-00XUXXG3040001) 1. Initial revision

		Definition c	or the	VISUAL LE	J indicators	(green and	red)	associated	with a	alsk ari	ve
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Host Control Bit G	reen LED	Red LED
RÖVD DEVICEDHOT SPAREDCONS CHECKDIN CRIT ARRAYDIN FAILED ARRAYDREBUILD/REMAPDR/R ABORTDACTIVEDDO NOT REMOVEDMISSINGDINSERTDREMOVEDIDENTSFAULTD	on't care on't care ff	OFF OFF Fast blink Slow blink Slow blink Fast blink Slow blink OFF ON Slow blink Slow blink OFF ON OFF

Supported Configuration



## Unsupported Configuration

1. This only applies to the enclosure which supports dual AIC 6G Expander Controllers. The enclosure with dual AIC 6G Expander Controllers attached is inserted with a SATA drive without any interposer. It will cause the drive LEDs behaves incorrect.

## Command Line Interface Operation

1. How to enable/disable T10 zoning

- The default T10 zoning configuration is off. (A) Check the current zoning state cmd> phyzone state Zoning is OFF
- (B) Enable zoning cmd> phyzone on
- (C) Disable zoning cmd> phyzone off

2. How to configure T10 zoning

After enabling TIO zoning, three predefined groups are Group1, Group8, and Group9. Each PHY should be in one of the three group, and all PHYs in a wide port should be in the same group. Each PHY in Group1 can access any PHY in other groups, and vice versa. Each PHY in Group8 cannot access any PHY in Group9, and vice versa.

- The default configuration, which allows two wide ports can access all drives, follows. (A) PHYO PHY3 for the UP wide port (the first port) : Group8 (B) PHY4 PHY7 for the UP/DOWN wide port (the second port) : Group1

- (C) PHY8 PHY11 for the third port if available : Group1 (D) PHY12 PHY35 for drive : Group1

The command syntax is "phyzone phy\_index group". The following example shows how to setup one drive accessed only the first port and another drive accessed only by the second port.

Step 1: Read the current group for PHY4

cmd> phyzone 4 Phy 4 for Zone Group 1

- Step 2: Assign the second port (PHY4 PHY7) for Group9 cmd> phyzone 4 9 cmd> phyzone 5 9 cmd> phyzone 6 9 cmd> phyzone 7 9
- Step 3: Assign the drive on PHY12 to be accessed only by the first port instead of the second port cmd> phyzone 12 8
- Step 4: Assign the drive on PHY13 to be accessed only by the second port instead of the first port cmd> phyzone 13 9

Step 5: Reset

- How to get all revisions in AIC SAS 6G Expander (A) Expander firmware revision cmd> rev
  - (B) Expander configuration revision cmd> showmfg