

# Release Note for AIC SAS 6G XC-28H-SA2E Expander

Jul 27, 2012

## Changelog

07/27/2012 (firmware 1.11.7.1 + mfg 1.7.0.2)

1. Improve signal

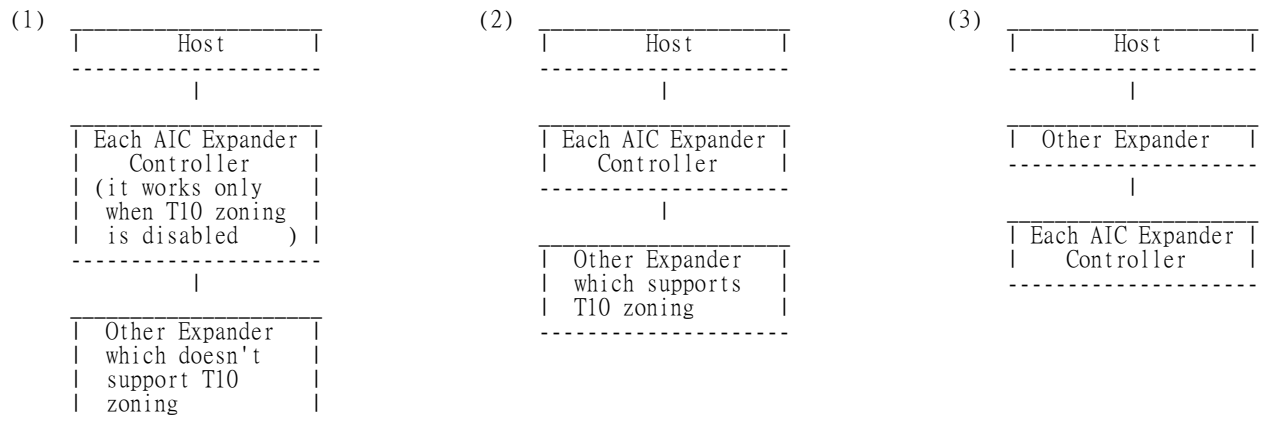
07/26/2012 (firmware 1.11.7.1 + mfg 1.7.0.1)

1. Initial revision

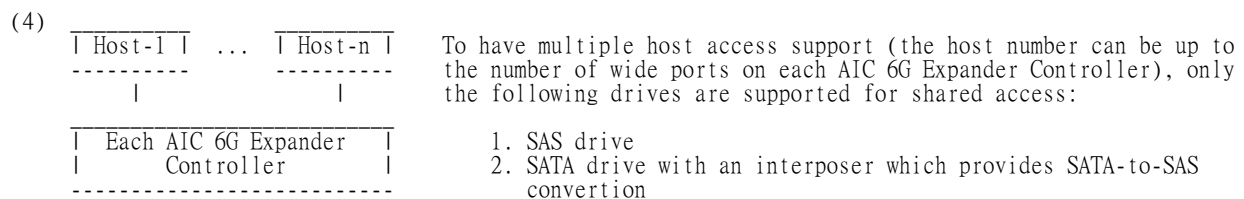
Definition of the visual LED indicators (blue and red) associated with a disk drive

Host Control Bit	Blue LED	Red LED
OK	ON	OFF
RSVD DEVICE	ON	OFF
HOT SPARE	ON	OFF
CONS CHECK	ON	Fast blink
IN CRIT ARRAY	ON	Slow blink
IN FAILED ARRAY	ON	Slow blink
REBUILD/REMAP	ON	Fast blink
R/R ABORT	ON	Slow blink
ACTIVE	ON	OFF
DO NOT REMOVE	ON	OFF
MISSING	ON	ON
INSERT	ON	Slow blink
REMOVE	ON	Slow blink
IDENT	Slow blink	OFF
FAULT	ON	ON
DEVICE OFF	ON	OFF

## Supported Configuration



Most 3G Expanders don't support T10 zoning.



## 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 T10 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) PHY0 - PHY3 for drive : Group8

(B) PHY4 - PHY7 for the UP wide port (the first port) : Group1

(C) PHY8 - PHY15 for drive : Group1

(D) PHY24 - PHY27 for the DOWN wide port (the second port) : 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 first port (PHY4 - PHY7) for Group8

```
cmd> phyzone 4 8
cmd> phyzone 5 8
cmd> phyzone 6 8
cmd> phyzone 7 8
```

Step 3: Assign the second port (PHY24 - PHY27) for Group9

```
cmd> phyzone 24 9
cmd> phyzone 25 9
cmd> phyzone 26 9
cmd> phyzone 27 9
```

Step 4: Assign the drive on PHY12 to be accessed only by the first port instead of the second port

```
cmd> phyzone 12 8
```

Step 5: Assign the drive on PHY13 to be accessed only by the second port instead of the first port

```
cmd> phyzone 13 9
```

Step 6: Reset

3. How to get all revisions in AIC SAS 6G Expander

(A) Expander firmware revision

```
cmd> rev
```

(B) Expander configuration revision

```
cmd> showmfg
```

(C) Information for managing sensors

```
cmd> sensor
```

4. How to configure temperature sensor

Four temperature settings in Celsius are T1, T2, warning threshold, and alarm (critical) threshold.

(A) Get the current temperature settings

```
cmd> temperature
```

Temperature in Celsius (t1=20 C, t2=55 C, warning=50 C, alarm=55 C)

(B) Set temperature with new T1=18 C, T2=52 C, warning threshold=48 C, and alarm threshold=54 C. The new setting will take effect after reset.

```
cmd> temperature 18 52 48 54
```

```
cmd> reset
```

5. How to configure fan count

(A) Get the current fan count

```
cmd> fancount
```

Fan count = 1

(B) Set the fan count. The new setting will take effect after reset.

```
cmd> fancount 0
```

```
cmd> reset
```