

CHENBRO

SR112 3.5" 6G 4Ports Mini-SAS Backplane

User's Manual

80H10211203A0

www.chenbro.com

Mar / 9 / 2011

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Web Support

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Phone Support

You can also contact Chenbro HQ or branch office for immediate support; contact information is as following:

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Revision History

Date	Modifications
Mar / 9 / 2011	● First release

Hardware Specification

Specification	
Host Interface	Mini-SAS
HDD Interface	SATA / SAS
Hot-Swap	Yes, allows user to on line replace Hard Disk Drive
Display	LED indicates Hard Disk Drive status (Defined by Chenbro) Power LED – Blue (When HDD is present) Access LED –Green (When HDD is busy)
Cooling	3pin Fan connector x3
Connectors	1. Mini-SAS x 1 2. SAS 29pin x 4 (for HDD) 3. Standard 4pin Power connector x 2 for +5V, +12V from power supply 4. PSU alarm x1 5. Alarm mute x 1
Dimension	130 (Length) x 120.9 (Width) x 1.6 (Thickness) mm

Accommodated Chassis

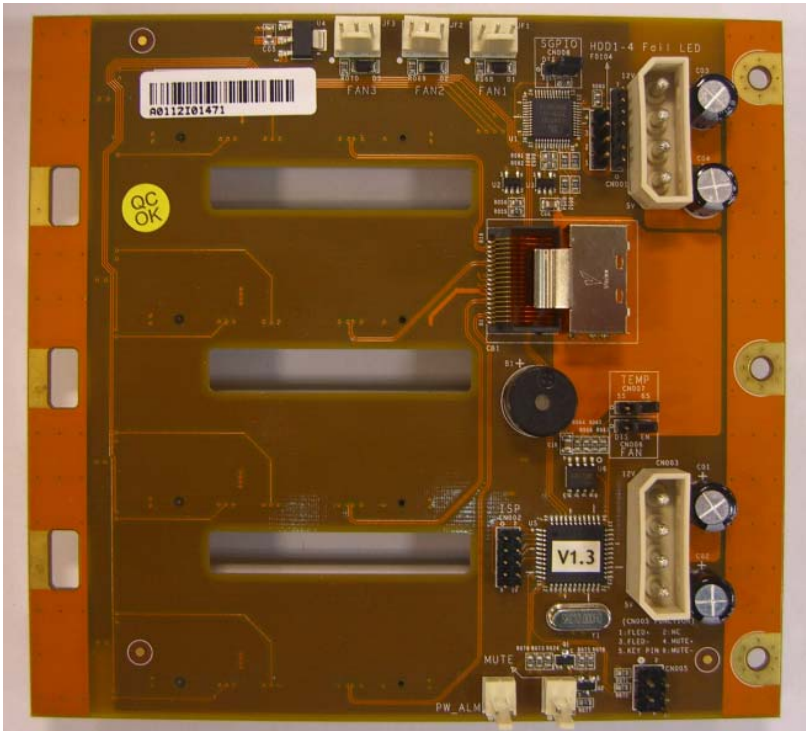
- SR11269

Backplane photos

Front view



Rear view

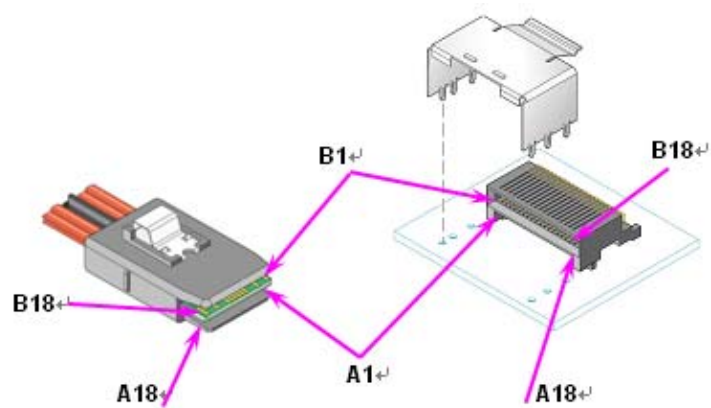


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Backplane layout

- 1. [CN011 / CN021 / CN031 / CN041]: Connect to 22-pin SATA-II or 29-pin SAS HDD
- 2. [LD011 / LD021 / LD031 / LD041]: Blue LED indicate HDD Power,
- 3. [LD012 / LD022 / LD032 / LD042]: Green LED indicate HDD activity, Red LED indicate HDD failure.
- 4. [CB1]: Mini-SAS connector

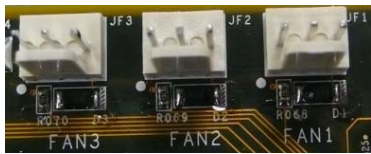
Pin Definition: SFF-8087 Mini-SAS 36-pin cable plug and receptacle connectors



Sideband Definition: The following table defines the SGPIO signal assignments for the Mini-SAS receptacle connector

Pin Number	Pin	Signal
A8	Sideband 0	SClock
A9	Sideband 1	SLoad
A10	Sideband 2	Ground
B9	Sideband 3	Ground
B10	Sideband 4	SDataOut
B11	Sideband 5	SDataIn
A11	Sideband 6	Reserved
B8	Sideband 7	*SGPIO Enable / Disable

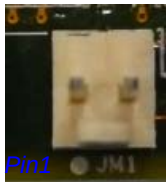
5. [JF1 / JF2 / JF3]: 3P3C Fan connector



6. [JP1]: Power failure input (To Redundant Power Supply)



7. [JM1]: Power Failure Alarm Mute Output (To Redundant Power Supply)



8. [F0104]: Discrete HDD Fail LED Signal Input connector (From RAID Card)



9. [CN003 / CN004]: standard big 4pin power connector



10. [CN005]: Fan / Power / Temperature Fail LED output connector (To Front Panel LED Display)



Pin	Definition	Function
1	LED (+)	Fan / Power / Temp Fail LED
2	N/A	
3	LED (-)	Fan / Power / Temp Fail LED
4	Buzzer Mute (+)	
5	Key Pin	
6	Buzzer Mute (-)	

11. [CN006]: Fan setting

12. [CN007]: Temperature setting



Temp	Pin1 & Pin2 is setting in 55 degree (Default)
	Pin2 & Pin3 is setting in 65 degree
Fan	Pin1 & Pin2 is setting in Disable (Default)
	Pin2 & Pin3 is setting in Enable

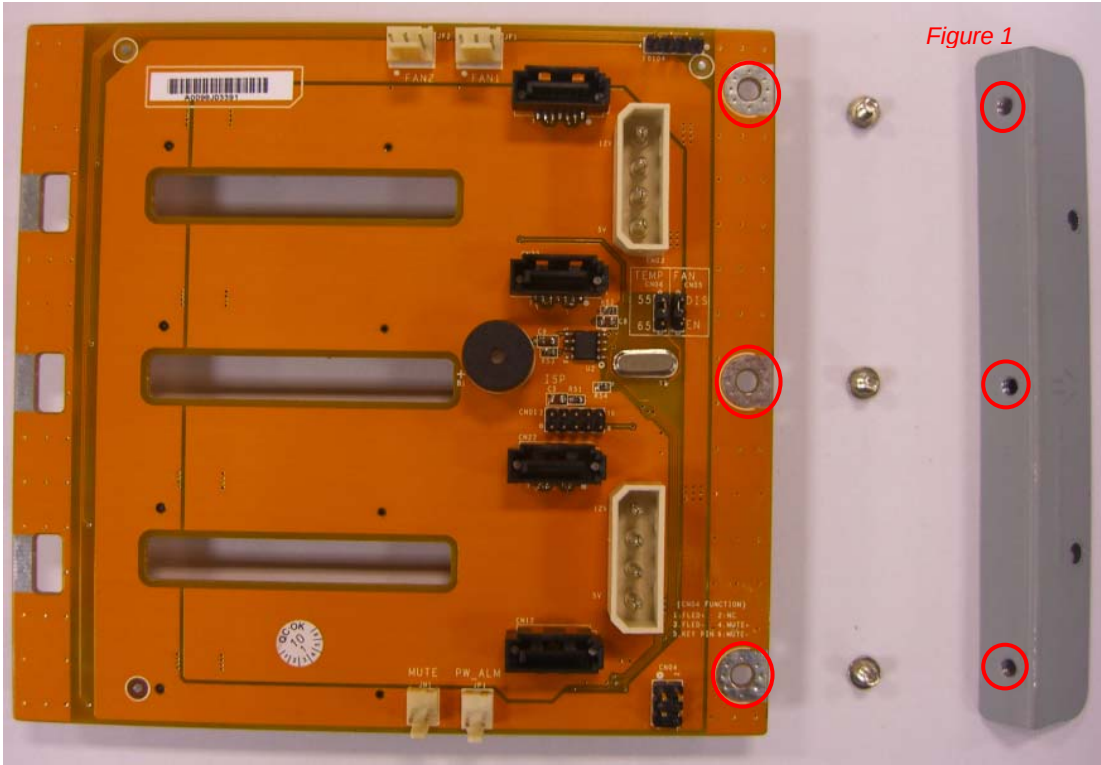
13. [CN008]: SGPIO function



SGPIO	Pin1 & Pin2 is setting in Disable
	Pin2 & Pin3 is setting in Enable (Default)

Backplane Assembly

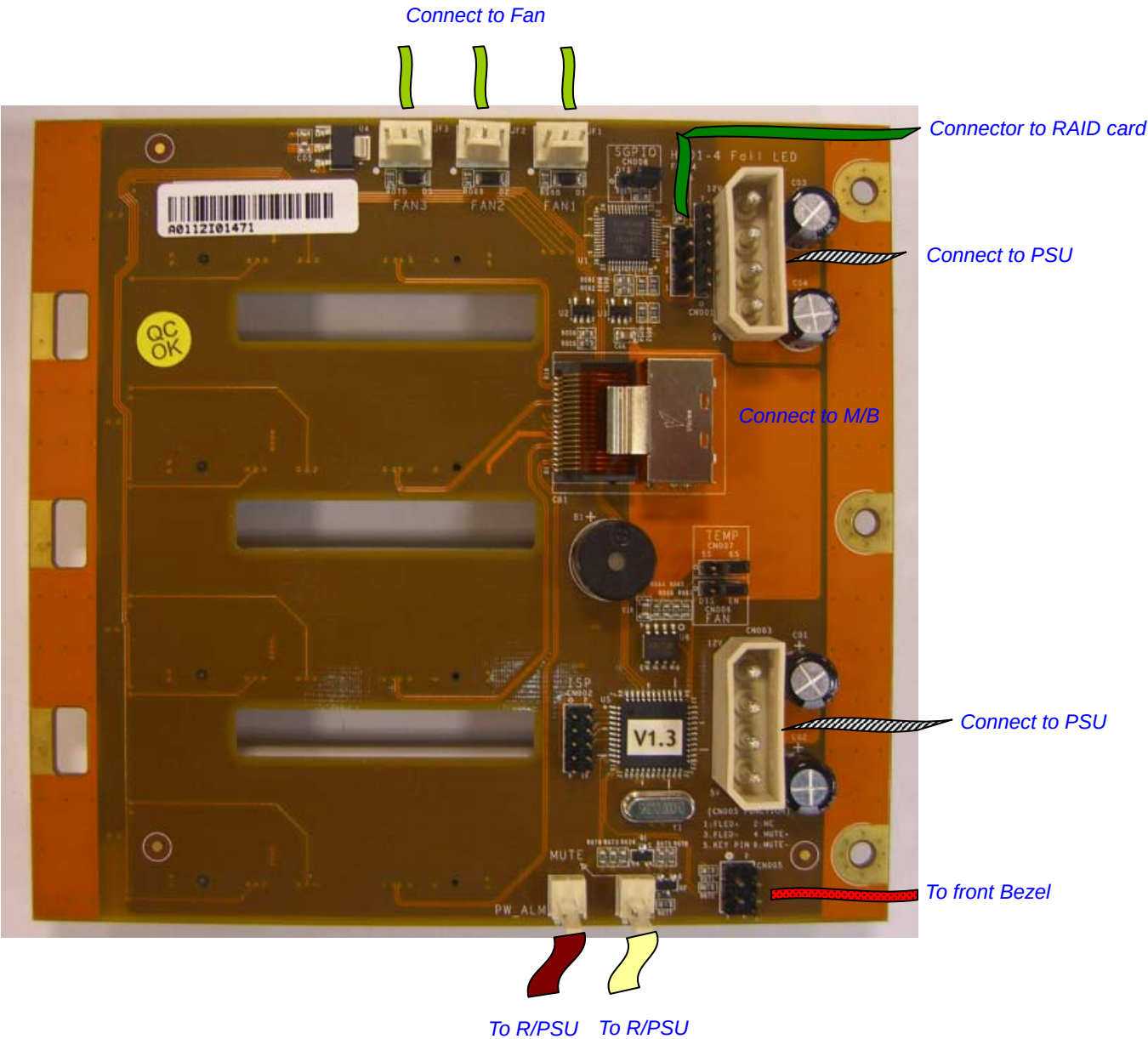
- 1. Assemble the backplane & bracket with screw in red, please refer to figure1, figure2.
- 2. Slide it into chassis, please refer to figure3, figure4.
- 3. Fix two screws on the bracket, please refer to figure5.



P.S. The photo of backplane is just for reference only.



Backplane Wiring



	Fan cable
	standard big 4pin power
	HDD Fail LED Signal Input
	Fan / Power / Temperature Fail LED output
	Power failure input
	Power Failure Alarm Mute Output