

CHENBRO

3-Port 6Gb/s SAS Backplane

80H10532304A0

User's Manual

April 2013

www.chenbro.com

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Web Support

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

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Tel: 886-2-8226-5500	Tel: 31-40-295-2045	Tel: 1-909-947-3200
Fax: 886-2-8226-5423	Fax: 31-40-295-2044	Fax : 1-909-947-4300
Chenbro UK LTD	Chenbro China Office	
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Safety Instruction

Caution:

Inform the user of conditions that might result in damage to hardware, corruption of customer data or application software, or long-term health hazard to people. A caution always precedes the information to which it relates.

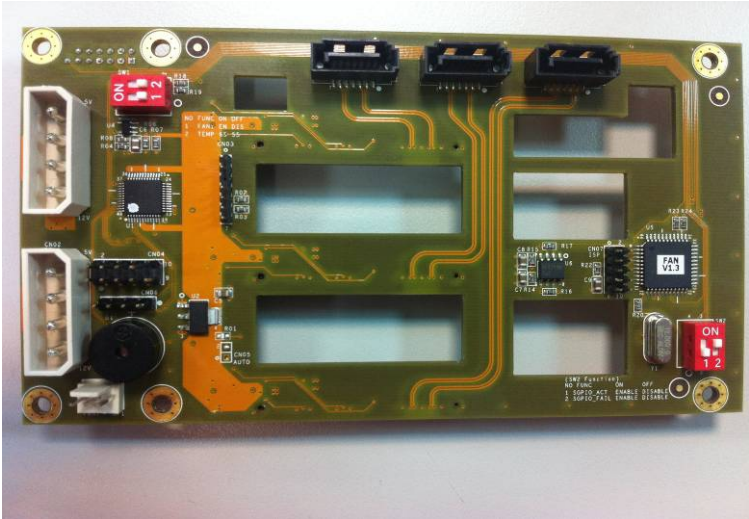
WARNINGS:

Alert the user to conditions that might result in injury or death. A warning always precedes the information to which it pertains.

Revision History

Date	Modification
March/22/2013	• First Release
April/03/2013	• Revised

6Gb/s Backplane Specification



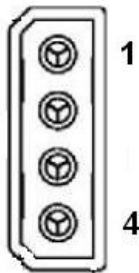
P/N: 80H10532304A0
HDD BACKPLANE TOP VIEW

Specification	
Host Interface	SATA
HDD Interface	SAS
Hot-Swap	Yes, allows user to replace Hard Disk drive on line
Display	LED indicates Hard Disk Drive status Power LED- Blue (When HDD is present) Access LED-Green (When HDD is busy) Error LED- Red (When HDD is error)
Cooling	One Fan Connector
Environment Monitor	Temperature senor detect (RT1, RT2)
Connectors	1. SAS Connector 29P*3 (for HDD) 2. SATA Connector 7P*3 (for HOST) 3. Standard 4P Power Connector*2 for +5V, +12V from power supply 4. Pin Header 2.54mm (1x4, 2x5) 5. Pin Header 2.0mm (1x2, 2x7)
Dimension	142(L)x 80.7(W)x 2.4(H) mm
Material	FR4 4 layer

Jumper/Connector Setting/ Descriptions:

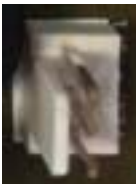
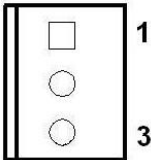
Power Connector (CN01~CN02)

Pin NO.	Description
1	12V
2	GND
3	GND
4	5V



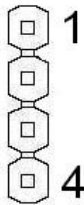
Fan Connector (JF1)

Pin NO.	Description
1	GND
2	12V
3	FAN Clock Input



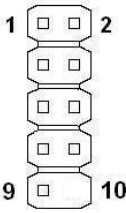
HDD FAIL LED Connector (CN06)

Pin NO.	Description
1	HDD FAIL LED (CN11)
2	HDD FAIL LED (CN21)
3	HDD FAIL LED (CN21)
4	NC



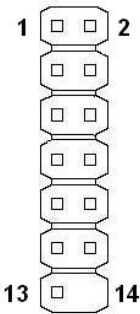
SGPIO SIGNAL Connector (CN04)

Pin NO.	Description	Pin NO.	Description
1	SGPIO DATA INPUT	2	NC
3	SGPIO DATA OUTPUT	4	GND
5	GND	6	SGPIO LOAD
7	CONTROL TYPE	8	SGPIO CLOCK
9	NC	10	KEY PIN



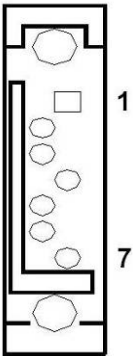
Front Panel LED Board Connector (CN08)

Pin NO.	Descriptions	Pin NO.	Descriptions
1	NC	2	Temp Fail LED Out
3	NC	4	Fan Fail LED Out
5	NC	6	Global Fail LED Out
7	NC	8	+5V
9	NC	10	GND
11	NC	12	GND
13	Mute+	14	Key Pin

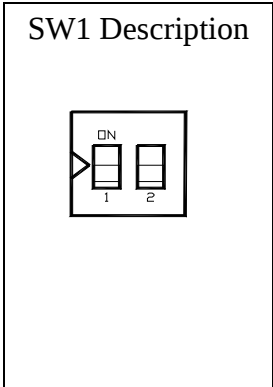


ATX 8P Connector (CN12, CN22, CN32)

Pin NO.	Descriptions
1	GND
2	RP
3	RN
4	GND
5	TN
6	TP
7	GND



SW1: Function Setting



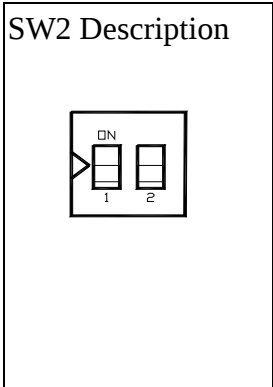
SW1-1: Fan 1 Enable/ Disable setting

SW1-1	Fan1
ON	Enable-Default
OFF	Disable

SW1-2: Threshold Temperature Setting

SW1-2	Temperature
ON	65 Degree C
OFF	55 Degree C- Default

SW2: Function Setting



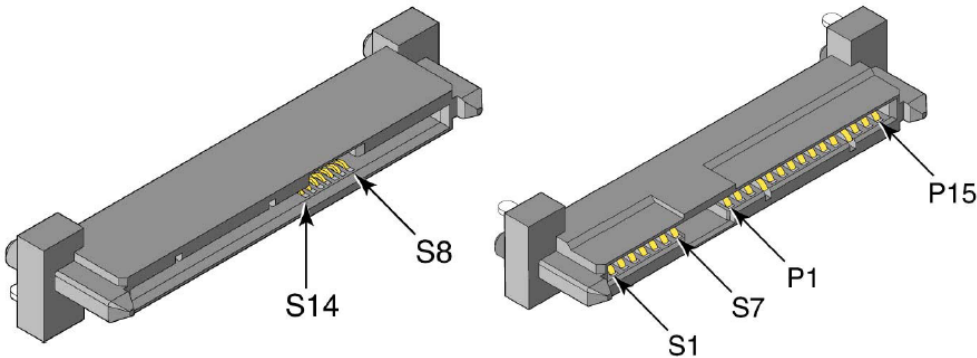
SW2-1: SGPIO ACT Enable/ Disable Setting

SW2-1	SGPIO ACT
ON	Enable
OFF	Disable-Default

SW2-2: SGPIO FAIL Enable/ Disable Setting

SW2-2	SGPIO FAIL
ON	Enable-Default
OFF	Disable

HDD IN Connector (For SAS) (CN11, CN21, CN31)

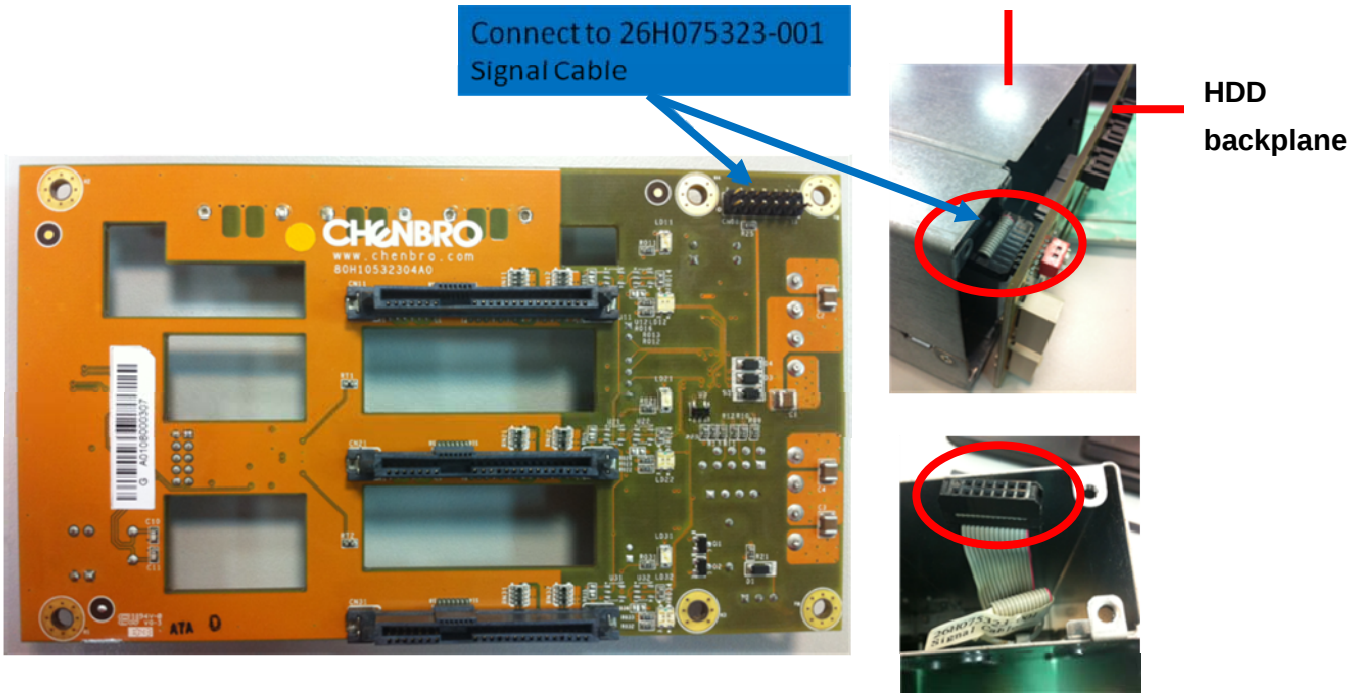


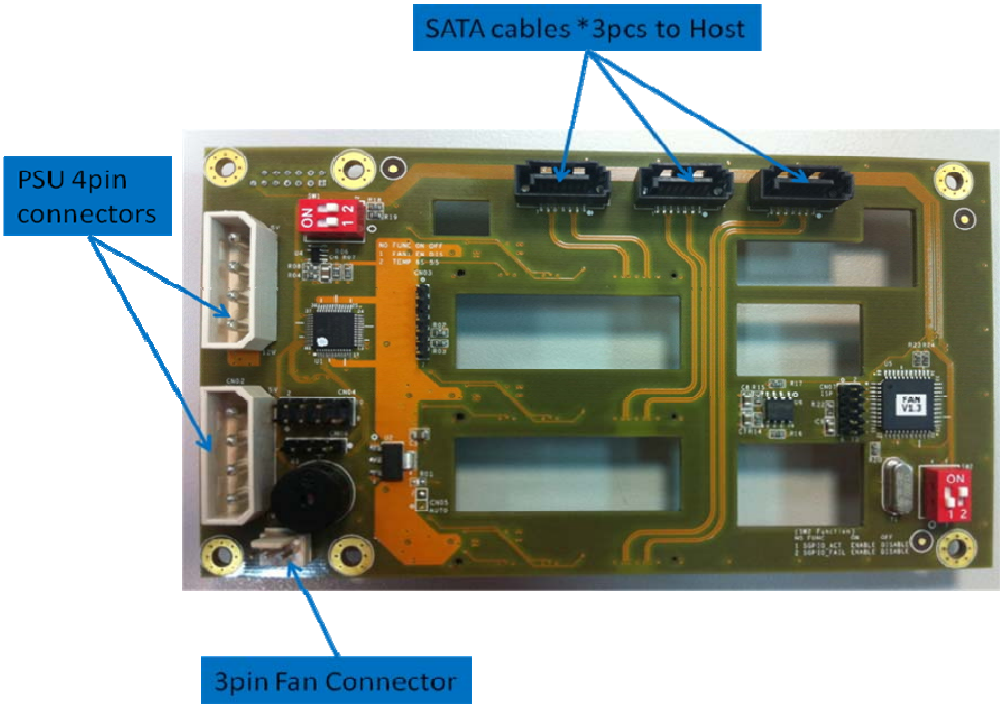
Pin NO.	Descriptions	Pin NO.	Descriptions
S1	GND	P1	NC
S2	RP	P2	NC
S3	RN	P3	NC
S4	GND	P4	GND
S5	TN	P5	POWER ENABLE
S6	TP	P6	GND
S7	GND	P7	5V PRE- CHARGE
S8	NC	P8	5V
S9	NC	P9	5V
S10	NC	P10	GND
S11	NC	P11	ACCESS SIGNAL
S12	NC	P12	GND
S13	NC	P13	12V PRE- CHARGE
S14	NC	P14	12V
		P15	12V



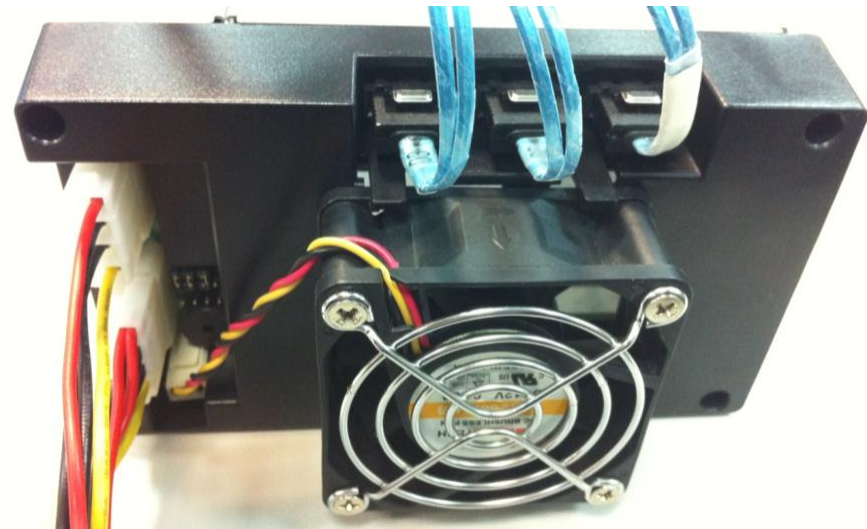
HDD BACKPLANE TOP VIEW

Backplane Wiring:





Actual Connection Sample:



SK32303 sample photo



Front view



Rear view