

BPN-SAS3-833A Backplane

USER'S GUIDE

Rev. 1.0

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Returning Merchandise for Service

A receipt or copy of your invoice marked with the date of purchase is required before any warranty service will be rendered. You can obtain service by calling your vendor for a Returned Merchandise Authorization (RMA) number. When returning to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton, and mailed prepaid or hand-carried. Shipping and handling charges will be applied for all orders that must be mailed when service is complete.

For faster service, RMA authorizations may be requested online (http://www.supermicro.com/support/rma/).

Whenever possible, repack the backplane in the original Supermicro box, using the original packaging materials. If these are no longer available, be sure to pack the backplane in an anti-static bag and inside the box. Make sure that there is enough packaging material surrounding the backplane so that it does not become damaged during shipping.

This warranty only covers normal consumer use and does not cover damages incurred in shipping or from failure due to the alteration, misuse, abuse or improper maintenance of products.

During the warranty period, contact your distributor first for any product problems.

Chapter 1

Safety Guidelines

To avoid personal injury and property damage, carefully follow all the safety steps listed below when accessing your system or handling the components.

1-1 ESD Safety Guidelines

Electrostatic Discharge (ESD) can damage electronic components. To prevent damage to your system, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing a component from the antistatic bag.
- Handle the backplane by its edges only; do not touch its components, peripheral chips, memory modules, or gold contacts.
- When handling chips or modules, avoid touching their pins.
- Put the card and peripherals back into their antistatic bags when not in use.

1-2 General Safety Guidelines

- Always disconnect power cables before installing or removing any components from the computer, including the backplane.
- Disconnect the power cable before installing or removing any cables from the backplane.
- Make sure that the backplane is securely and properly installed on the motherboard to prevent damage to the system due to power shortage.

1-3 An Important Note to Users

 All images and layouts shown in this user's guide are based upon the latest PCB revision available at the time of publishing. The card you have received may or may not look exactly the same as the graphics shown in this manual.

1-4 Introduction to the BPN-SAS3-833A Backplane

The BPN-SAS3-833A backplane has been designed to utilize the most up-to-date technology available, providing your system with reliable, high-quality performance.

Always refer to the Supermicro Web site at www.supermicro.com for the latest updates, compatible parts, and supported configurations.

Chapter 2

Connectors and Pin Definitions

2-1 Front Connectors

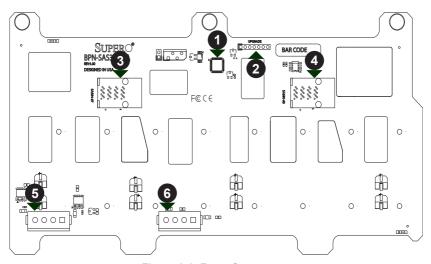


Figure 2-1. Front Connectors

- 1. Chip: CPLD
- JTAG Connector (7-pin): J11, CPLD Upgrade Port
- MiniSAS HD Connector for Ports #4-7: JSM1
- 4. MiniSAS HD Connector for Ports #0-3: JSM0
- 5. Power Connector (4-pin) #1: JPW1
- 6. Power Connector (4-pin) #2: JPW2

2-2 Front Connector Pin Definitions

#1. CPLD Chip

The CPLD is an enclosure management chip that supports the SGPIO and LED management.

#2. CPLD Upgrade Port

The CPLD programming port, designated J11, is used only by the manufacturer to upgrade the CPLD.

#3. - 4. MiniSAS HD Connectors

The SAS ports are used to connect the SAS drive cables. The 2 ports are designated JSM0, for drives at SAS #0-#3, and JSM1, for drives at SAS #4-#7 (see section 2-4 for SAS drive locations). Each port is also compatible with SATA drives. However, mixing SAS3 and SATA drives in the same enclosure is not recommended

#5. - 6. Backplane Main Power Connectors

The 4-pin connectors, designated JPW1 and JPW2, provide power to the backplane. See the table on the right for pin definitions.

Backplane Main Power 4-Pin Connector Pin# Definition		
2 and 3	Ground	
4	+5V	

2-3 Front Jumper Locations and Pin Definitions

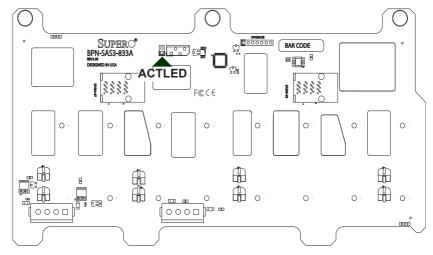
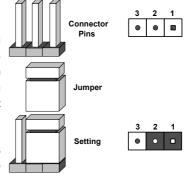


Figure 2-2. Front Jumpers

Explanation of Jumpers

To modify the operation of the backplane, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board.

Note: On two pin jumpers, "Closed" means the jumper is on and "Open" means the jumper is off the pins.



	Jumper Settings				
Jumper	Jumper Settings	Note			
ACTLED	Open: Default	This is used for internal testing only.			

2-4 Rear Connectors and LED Indicators

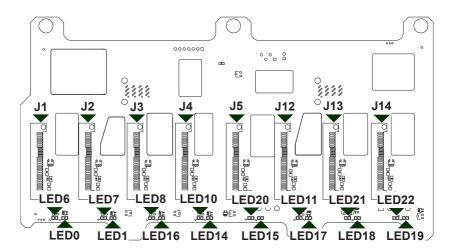


Figure 2-3. Rear Connectors

SAS/SATA Connectors and LED Indicators						
Rear Connector	SAS Drive Number	Failure LED	Activity LED			
J1	SAS/SATA HDD #0	LED6	LED0			
J2	SAS/SATA HDD #1	LED7	LED1			
J3	SAS/SATA HDD #2	LED8	LED16			
J4	SAS/SATA HDD #3	LED10	LED14			
J5	SAS/SATA HDD #4	LED20	LED15			
J12	SAS/SATA HDD #5	LED11	LED17			
J13	SAS/SATA HDD #6	LED21	LED18			
J14	SAS/SATA HDD #7	LED22	LED19			

Notes

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