

BPN-SAS-813LT Backplane

USER'S GUIDE

Rev. 1.0

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WARNING: Handling of lead solder materials used in this product may expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm.

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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.

Notes

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 A 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-SAS-813LT Backplane

The BPN-SAS-813LT backplane has been designed to utilize the most up-to-date technology available, providing your system with reliable, high-quality performance.

This manual reflects BPN-SAS-813LT board revision 1.00, the most current release available at the time of publication. Always refer to the Supermicro website at <http://www.supermicro.com> for the latest updates, compatible parts and supported configurations

Chapter 2

Connectors, Jumpers and LEDs

2-1 Rear Connectors

The following connectors are on the side of the backplane that faces the rear of the chassis. They are marked by silkscreen labels.

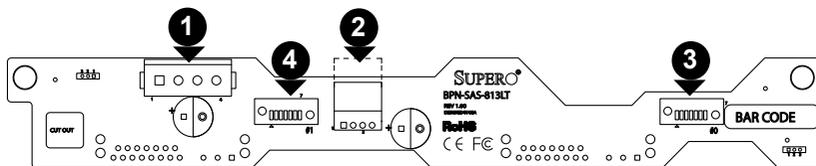


Figure 2-1. Rear Connectors

Rear Connectors

- | | |
|----------------------------|--------------------|
| 1. Power Connector (4-pin) | 3. SAS#0 Connector |
| 2. Power Output | 4. SAS#1 Connector |

2-2 Rear Connector and Pin Definitions

1. Backplane Main Power Connector

The 4-pin connector provides power to the backplane. See the table on the right for pin definitions.

Backplane Main Power 4-Pin Connector	
Pin#	Definition
1	+12V
2 and 3	Ground
4	+5V

2. Power Output

The power output port is used to provide power to the slim DVD-ROM.

2. - 4. SAS/SATA Ports

The SAS/SATA ports are used to connect the SAS drive cables. The ports are designated SAS#0 and SAS#1.

2-3 Front Connectors and LED Indicators

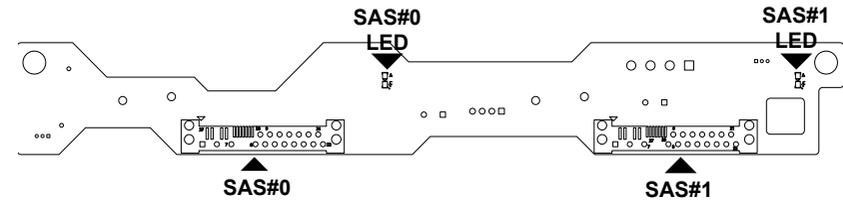


Figure 2-2. Front LEDs and Connectors

Rear SAS/SATA Connectors

Front Connector	Drive Number
SAS/SATA #0	SAS/SATA HDD #0
SAS/SATA #1	SAS/SATA HDD #1

Rear LED Connectors

LED	Description
SAS#0	Indicates activity on SAS/SATA HDD #0
SAS#1	Indicates activity on SAS/SATA HDD #1

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