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# DH-6GMSAS-01A Backplane Manual

## (1) Product Features

- 1U4 plate mini-SAS Passive Backplane, 6-layer design; the upper and lower layers are made of 1.5oz copper
- Anti-static circuit design
- Supports hard disk drive in-rush current control for hot-swapping capability
- Supports 6 Gbps SATA/ SAS interface or backward compatibility
- 24/7 of continuous work
- Supports redundant DC power input (Provides stable input when either one of the 2 x 4pin power connectors is connected to the input interface on the backplane)
- Supports hard disk power-on in sequence
- Supports hard disk drive alarm functionality (SGPIO signal)

## (2) Operation Manual

- Install the backplane in the chassis
- Use mini-SAS to mini-SAS cable or 4 x SAS to mini-SAS cable to connect the motherboard (or expander card) and Backplane's mini-SAS interface
- Connect the 4pin power connector of the power supply to the 4pin power connector interface on the backplane (Either one of the 2 x 4pin power connectors on the backplane)
- Install 1~4 drives to the SAS interface on the backplane

## (3) LED Lights Function Description

- LED6, LED7, LED8 and LED10 are indicators for hard disk drive's power and read/ write functions:
  - The LED will not light when there is no hard disk connected; the LED will turn solid blue when hard disk is inserted and powered-on
  - The LED lights will flash (read/ write speed and flashing speed are consistent) when the hard disk reads/ writes. The LED lights stay solid blue if there is no read/ write activity
- LED5, LED12, LED13 and LED14 are warning LED lights for the hard disk.
  - The red LED lights will flash when the hard disk is in "rebuild" and "locate" status.
  - The LED lights will stay solid red when the hard drive connection is loose or damaged.

## (4) Hard Disk Drive Alarm Compatibility:

The Backplane supports Hard Disk Drive Alarm Functionality (in accordance to SGPIO specifications).

The following is a list of tested RAID controllers that are compatible with the backplane:

Intel - ICH10  
LSI - 1068e  
LSI - 9708EM2