

Bay LED Support on CI Design NSR Unit with LSI Controller Card

I. Introduction

This manual will provide the information for Bay LED Support on CI Design NSR Enclosures using the Horizontal Backplane Board 12-6429 with LSI Card.

DRIVE BAY LED SUPPORT			LSI CARD
Bay Power LED	Bay Activity LED	Bay Status LED	
Backplane Board	HDD (P11)	Discrete Cable 05-3243-01A (6M), 05-3243-02A (9M)	8708ELP
		SGPIO (No Discrete Cable)	84016E, 8888ELP 9260-8i

Note: LSI MegaRAID SATA / SAS Card FW: 8708ELP (FW1.40.212-09), 84016E (FW 1.12.230-0598), 9260-8i (FW 2.90.03-0933), 8888ELP (FW 1.20.32-0512).

Table 1 Drive Bay LED Support

II. Bay LED Support without Discrete Cable (SGPIO)

II. 1. Required materials:

1. Data Cable SFF8087 with Side-Band.
2. The Backplane Board 12-6429-11X-C01 that has been flashed with the correct Firmware (Light Green Point marking on U10 surface on the board).

II.2. Settings on Backplane Board

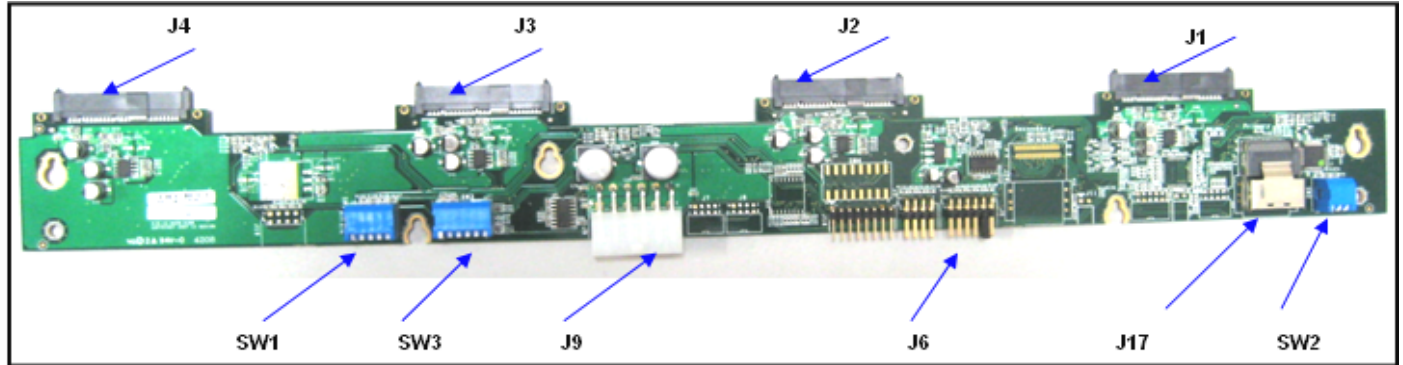


Figure 1 Backplane Board 12-6429-08B-C01

HEADER	J6	Shunt-Jumper on pin 9 – 10
SWITCH	SW1	All DIP Keys are ON
	SW2	All DIP keys → ON
	SW3	DIP Key 1 → OFF DIP Key 2-6 → ON

Table 2 Switch & Header Setting on Backplane Board 12-6429-08B-C01

II.3. Connection on Backplane Board

1. Data Cable Connection.

Data Cable Connector	HDD Type
J17	SATA / SAS (primary)

Table 3 Data Cable Connector on the board

2. Power Supply Cable Connection

Connect the Power Supply DC Cable to J9 on each Backplane Board (B/P).

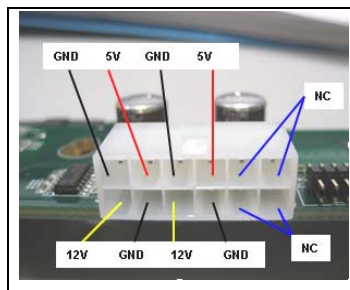


Figure 2 J9 Power Input Pin Out

3. HDD Connection

Engage the HDD on J1, J2, J3, J4.

II.4. Installing the cables onto controller card

Using SGPIO, the only cable that needs to be connected to the card is the DATA Cable with Side-Band.

III. Bay LED Support using Discrete Cable.

III.1. Required Material:

1. Backplane Board 12-6429-06X, 12-6429-08X with Blue Point marking on U10 surface on the board.
2. For LSI 8708ELP → LED Discrete Cable 05-3243-01A (L= 600m) or 05-3243-02A (L=910mm).

III.2. Settings on Backplane Board

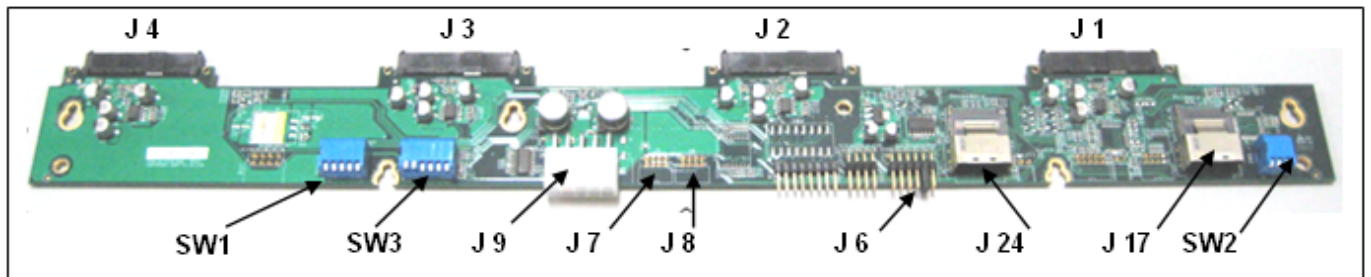


Figure 3 Backplane Board 12-6429

HEADER	JP 6	Shunt Jumper on pin 9 -10
SWITCH	SW1	All DIP keys → ON
	SW3	DIP Key 1-2 → OFF
		DIP Key 3-6 → ON
	SW4	All DIP keys(if any) → OFF
	SW2	All DIP keys → ON

Table 4 Switch & Header Setting on Backplane Board

III.3. Connection on Backplane Board

1. Data Cable Connection.

Data Cable Connector	HDD Type
J17	SATA / SAS (primary)

Table 5 Data Cable Connector on the board

2. LED Discrete Cable Connection

The 4-pin Cable Connector of the LED Discrete Cable must be connected to the Backplane Board on the Upper Row of J6 (Arrow of Cable Connector to pin-1 of J6) as shown on Figure 4.

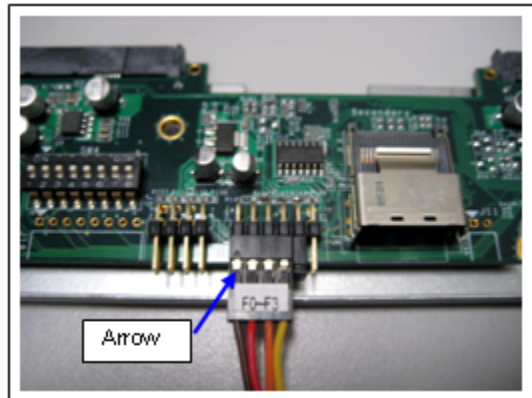


Figure 4 The 4-pin LED Cable Connection to the Backplane Board

3. Power Supply Cable Connection

Connect the Power Supply DC Cable to J9 on Backplane Board (B/P).

4. HDD Connection

Engage the HDD on J1, J2, J3, J4.

III.4. LED Discrete Cable Connection on Controller Card

The 8-pin Cable Connector must be connected to the LSI Card on the 8x2 Fault LED Header on Cathode Pins as shown on Figure 5.

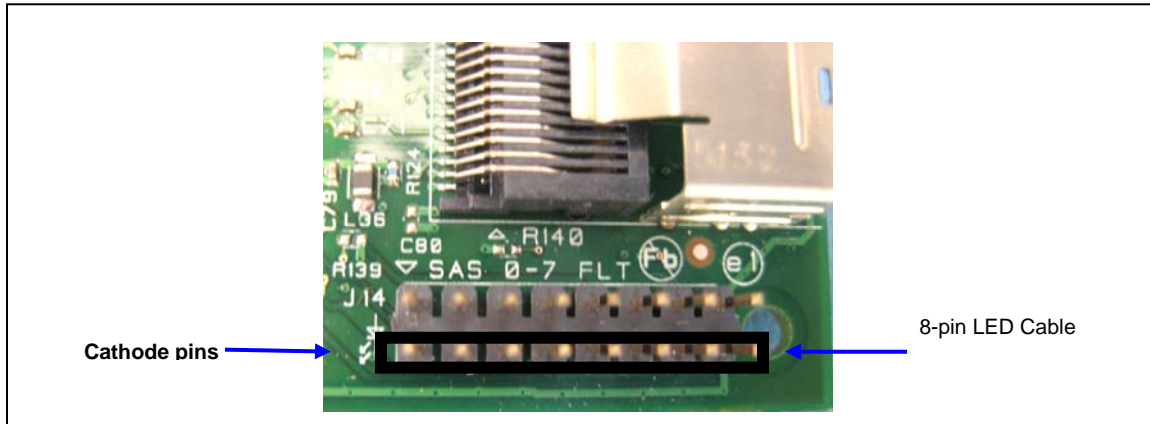


Figure 5 Connection of the 8-pin LED Cable Connector to LSI Card

The Location and Cable Connection/ Orientation to this LED Header depend on the LSI Card Model. Refer to Section III.6 for details.

III.5. Instructions for connecting the Discrete Fail LED cable

1. Connect the 4-pin Cable Connector of the LED Cable Assembly (Label F0-F3) to the First Backplane Board whose Data Cable connects to the Data Ports 0-3 on LSI Card. Refer to III.3.2 for the Backplane LED Cable Connection.
2. Connect the other 4-pin Cable Connector (Label F4-F7) to the Second Backplane Board, if any, whose Data Cable connects to the Data Ports 4-7 on LSI Card. Refer to III.3.2 for the Backplane LED Cable Connection.
3. Connect the 8-pin Cable Connector of this LED Cable Assembly (Label 0-7) to the Card on the 8x2 Fault LED Header Location that is corresponding to the Data Ports 0 - 7. Refer to Section III.4 for the LED Cable Connection on the Card.

For more backplane boards on more location of Data Ports on the Card, similarly follow step III.5.1- III.5.3:

III.6. LED Cable Connection and Orientation on LSI Card

The Fault LED Header is highlighted on the drawing.

LSI 8708ELP

LED Cable F0-F7 connects to J5 Header on the Card, Arrow of Cable Connector to pin-16 of Header

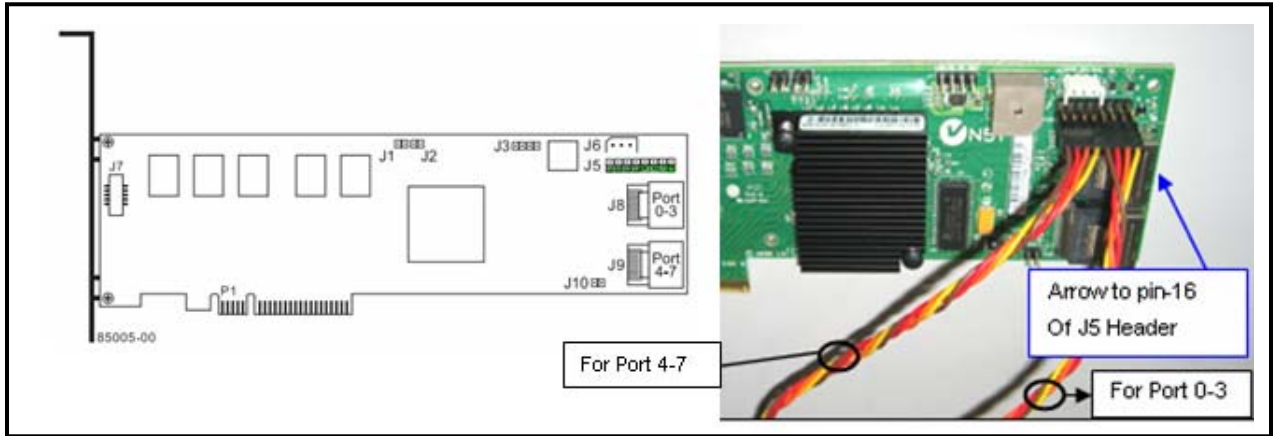


Figure 6 LSI SAS / SATA 8708ELP