

# **HPC-8000**

## **Assembling SOP**

### **- JBOD (w/ ASR-1000K)**

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# Assembling SOP for Storage Server

- Install RPSU
- Install SAS cable
- Install Sponges (HPC-8212/8224/8424)
- Install ASR-1000K
- Install FAN cable
- **JBOD Setting**
- **ADD SYSTEM LEVEL TEST**
- Install FLB/USB Mylar
- Add New Rear Cover (HPC-8316/8424)
- Install Handles (HPC-8316)
- Install Slide Rail

# Install RPSU

# Install PSU: 2U RPSU

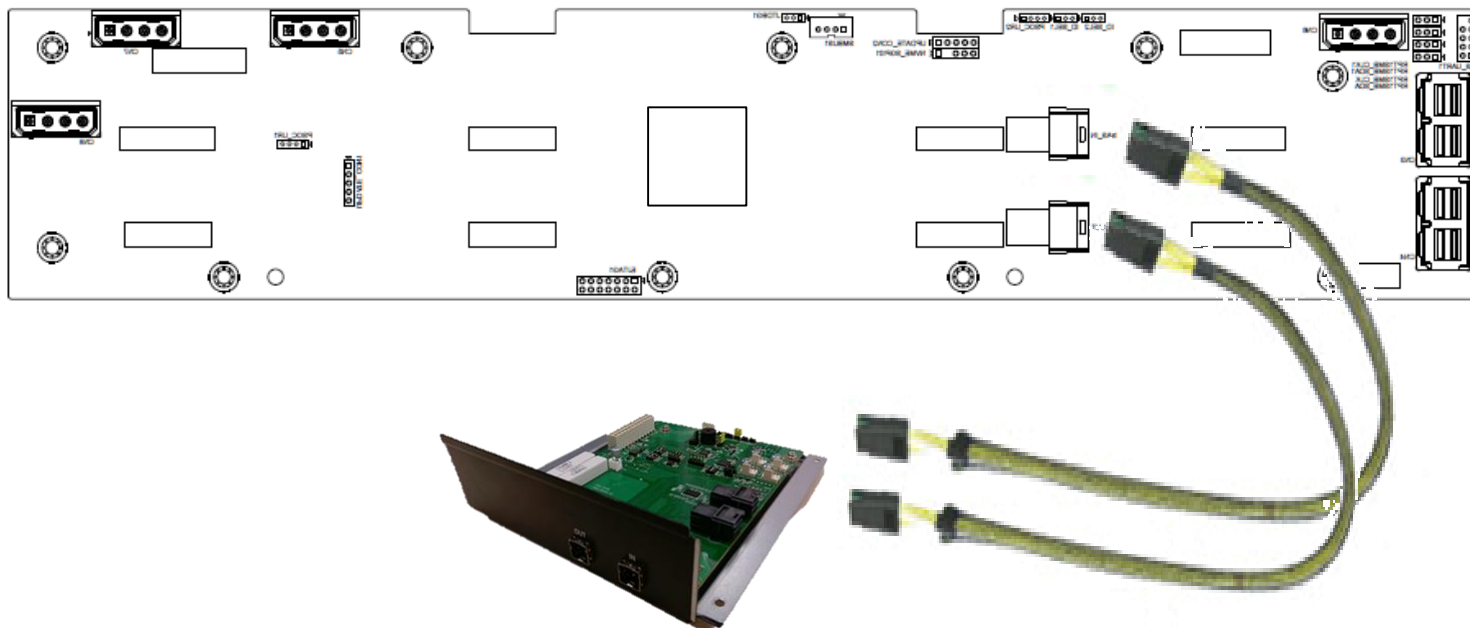
- Default chassis

PN: Chassis + PSU	RSPU
HPC-8212SA-R5A1E	Etasis 550W
HPC-8224SA-R5A1E	
HPC-8316SA-R5A1E	
HPC-8424SA-R5A1E	

- Recommend using “SA” SKU only

# Install SAS cable

# System Block Diagram – with JBOD Kit

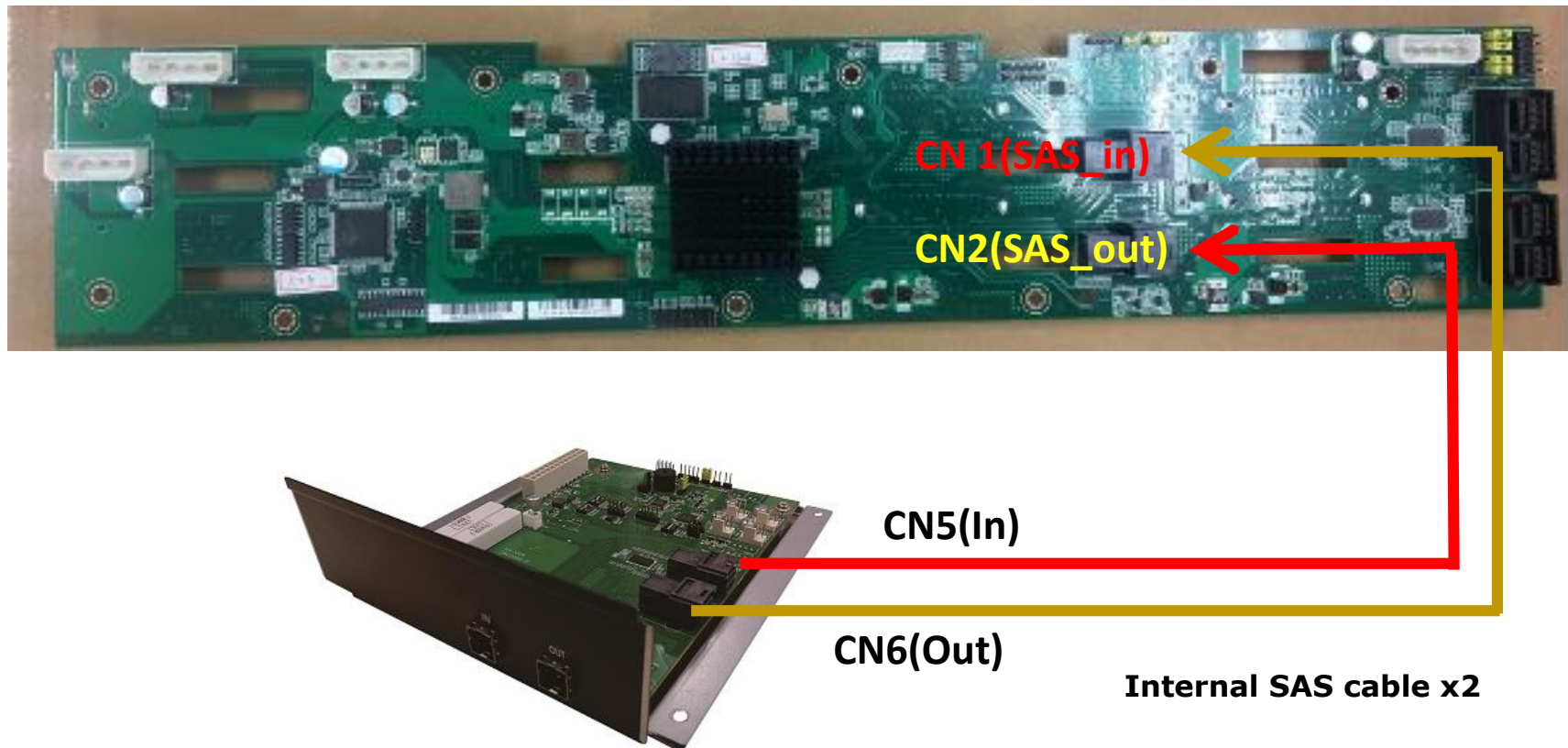


**Internal Mini-SAS HD  
cable x2**

# Install SAS Cable (for JBOD)

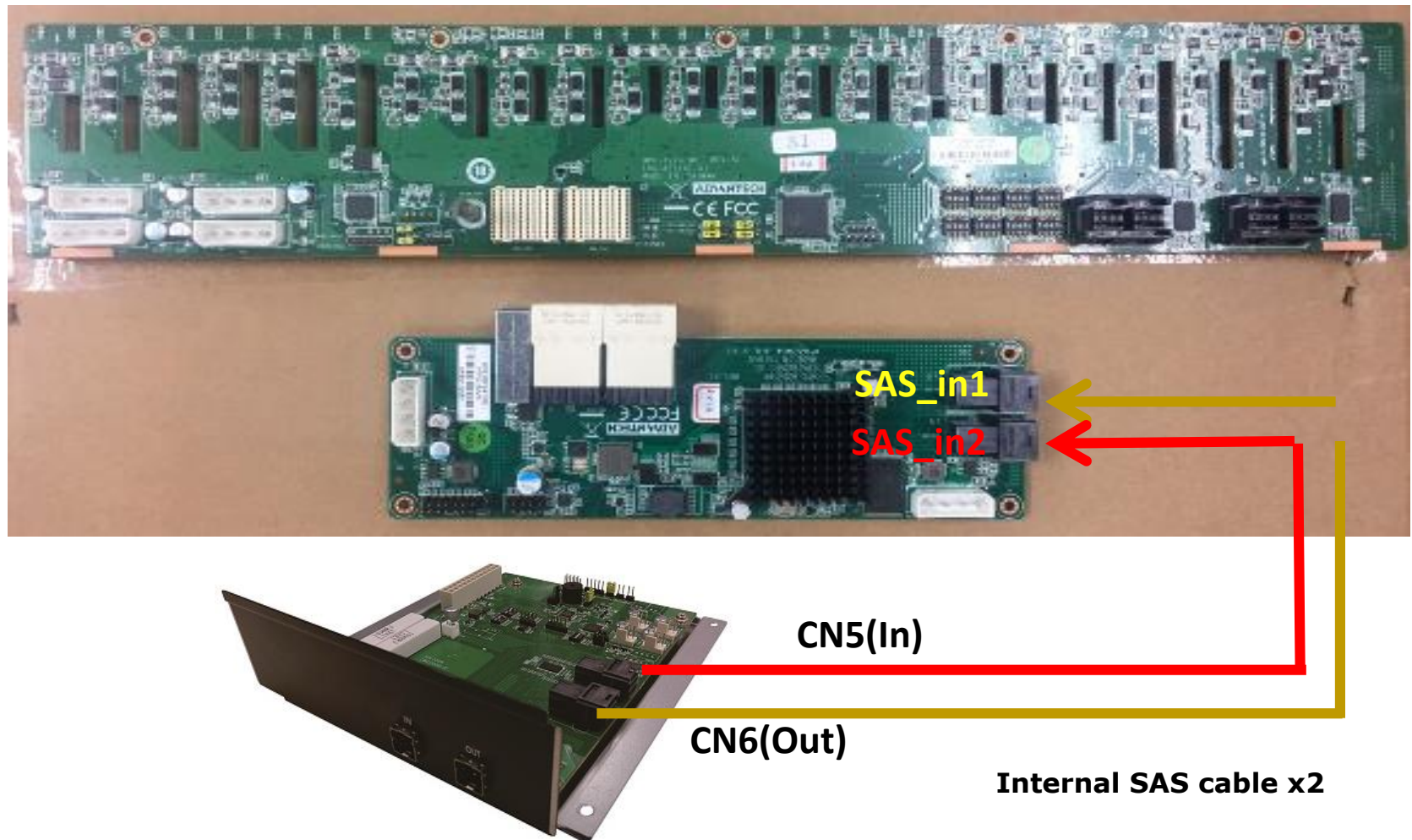
- Two mSAS HD cables are included in ASR-1000K. no need to additionally order SAS cables
- Both of mSAS HD cables need to be connected between BP & ASR-1000K
- Please note that “**cabling method**” since one cable for input, the other is for output; **CAN'T MIX UP**

# Install SAS Cable (HPC-8212)

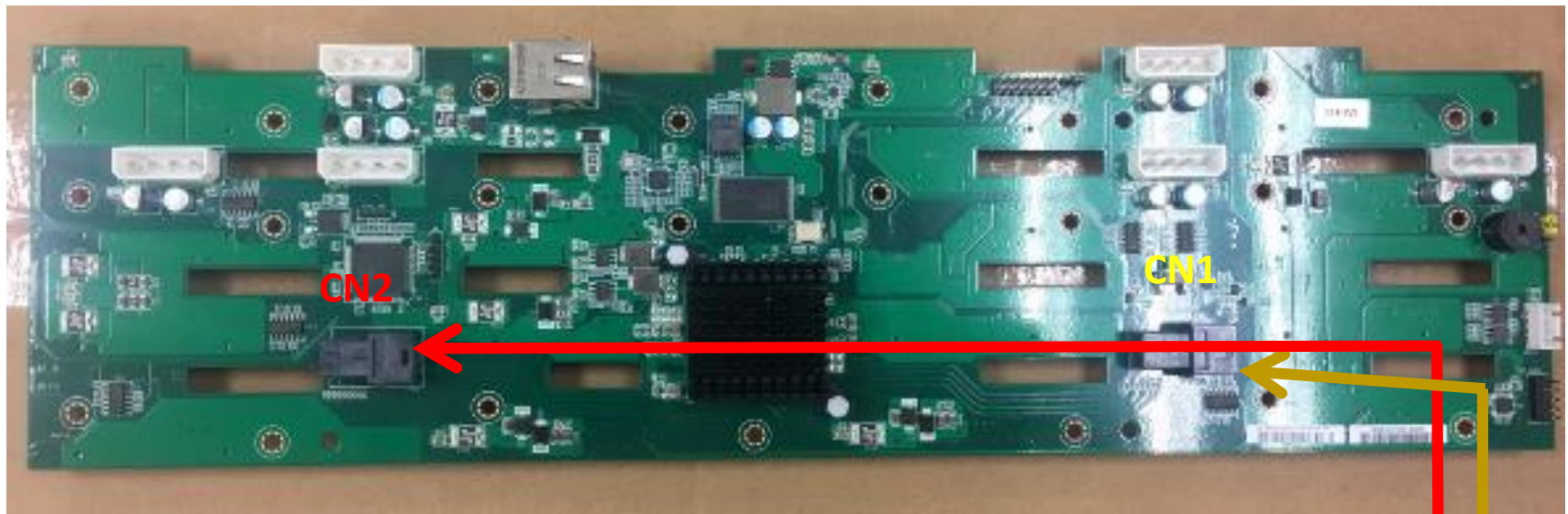




# Install SAS Cable (HPC-8224)



# Install SAS Cable (HPC-8316)



CN5(In)

CN6(Out)

Internal SAS cable x2

# Install SAS Cable (HPC-8424)

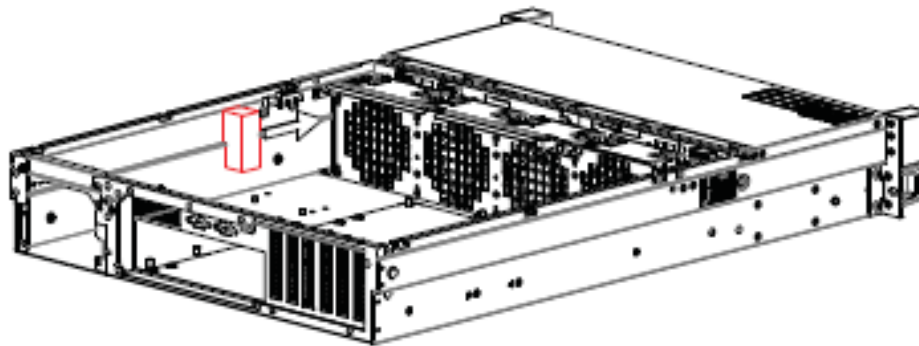
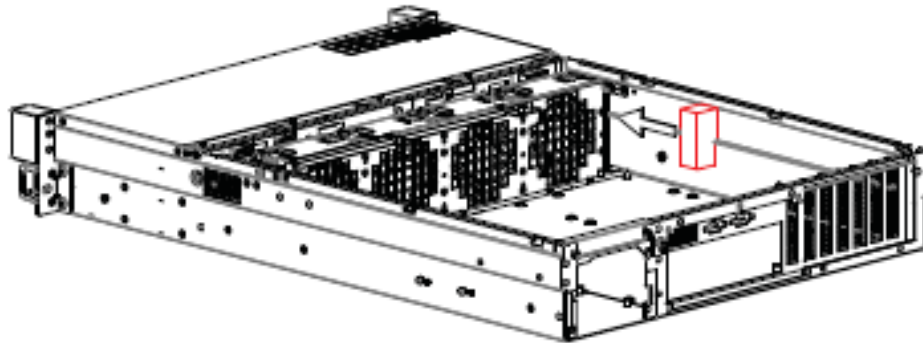


Internal SAS cable x2



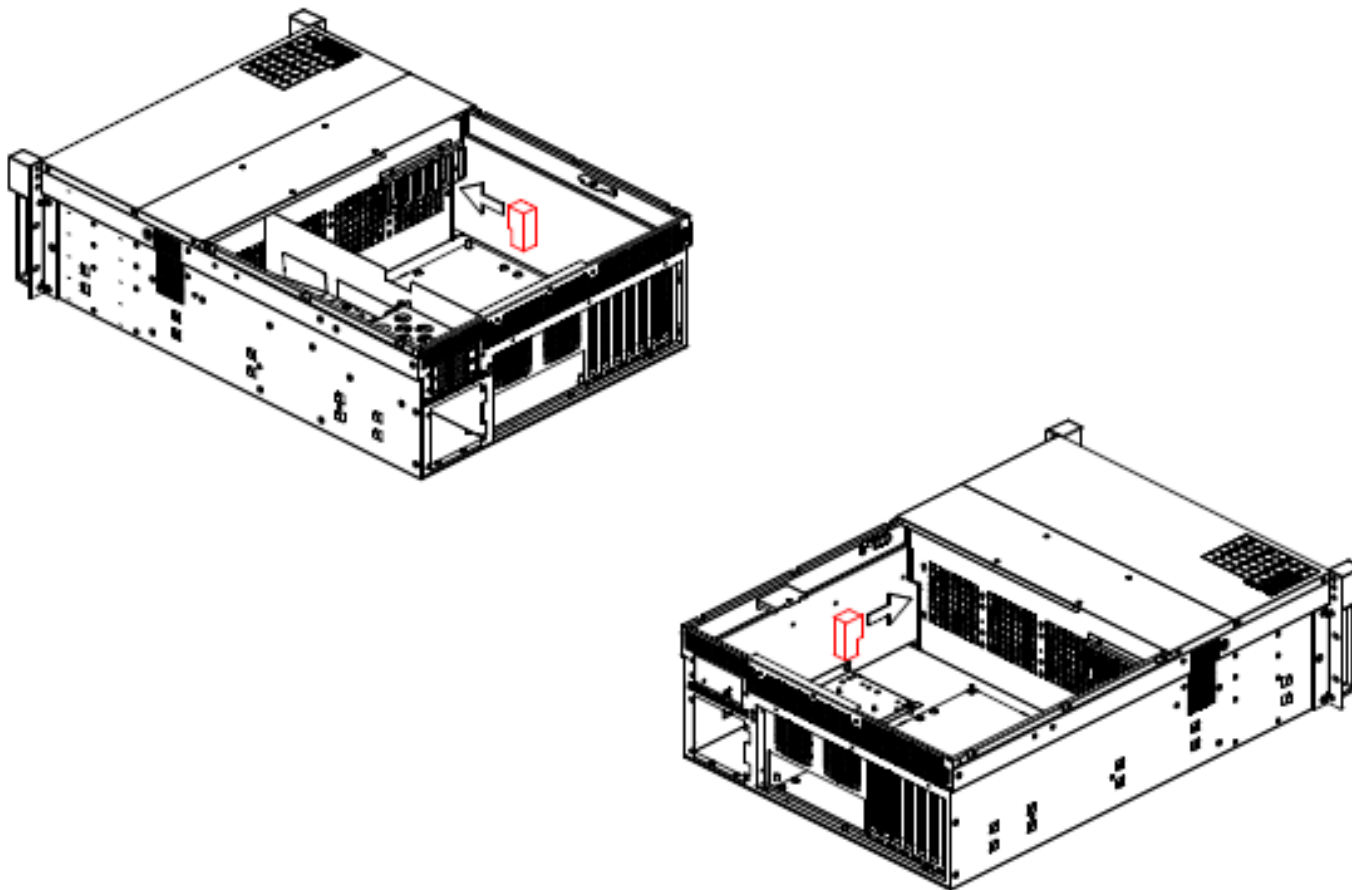
# **Install Sponges (only HPC-8212/8224/8424)**

# Sponges in 2U HPC-8212/8224



**Sponges are placed on the accessory box**

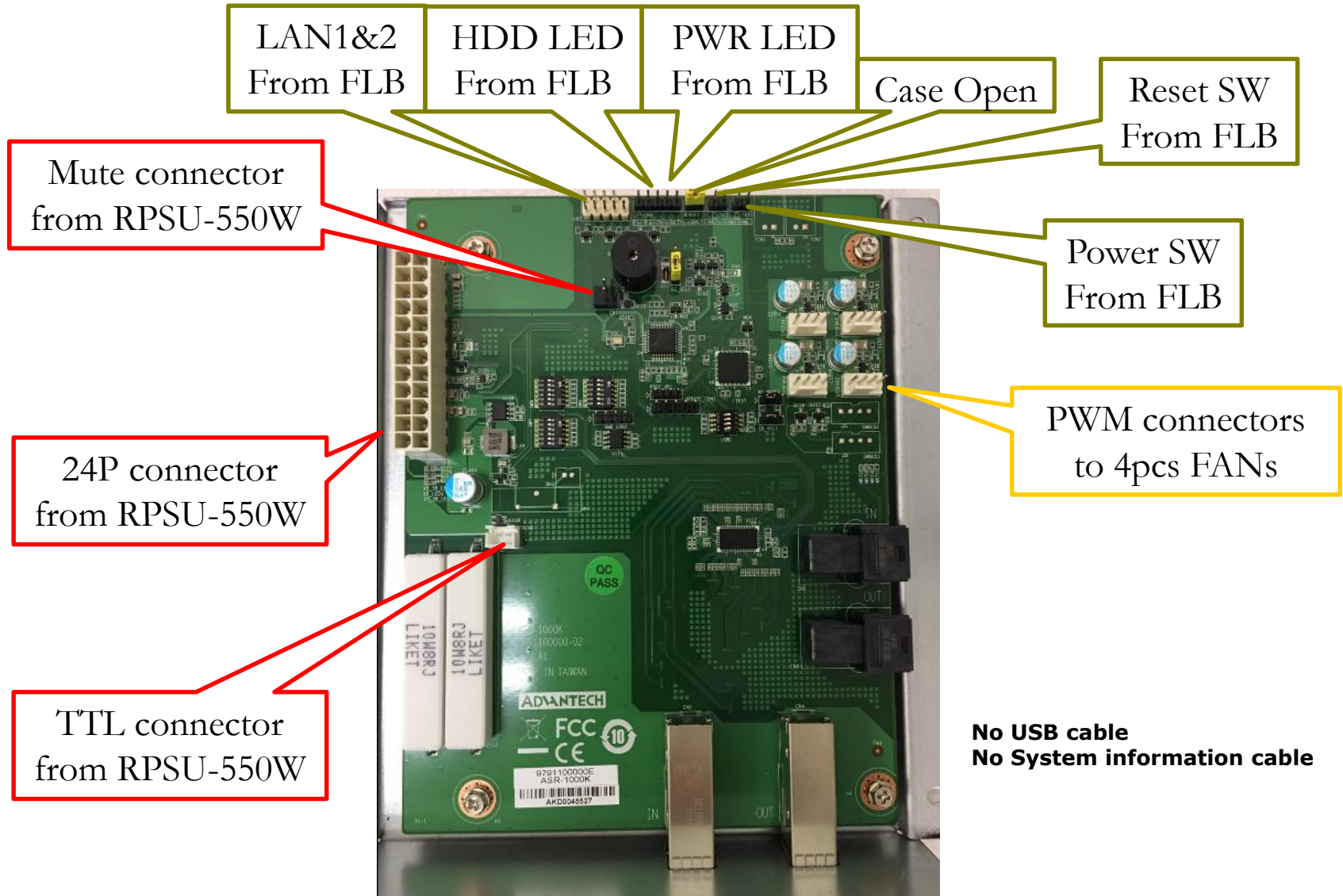
# Sponges in 4U HPC-8424



**Sponges are placed on the accessory box**

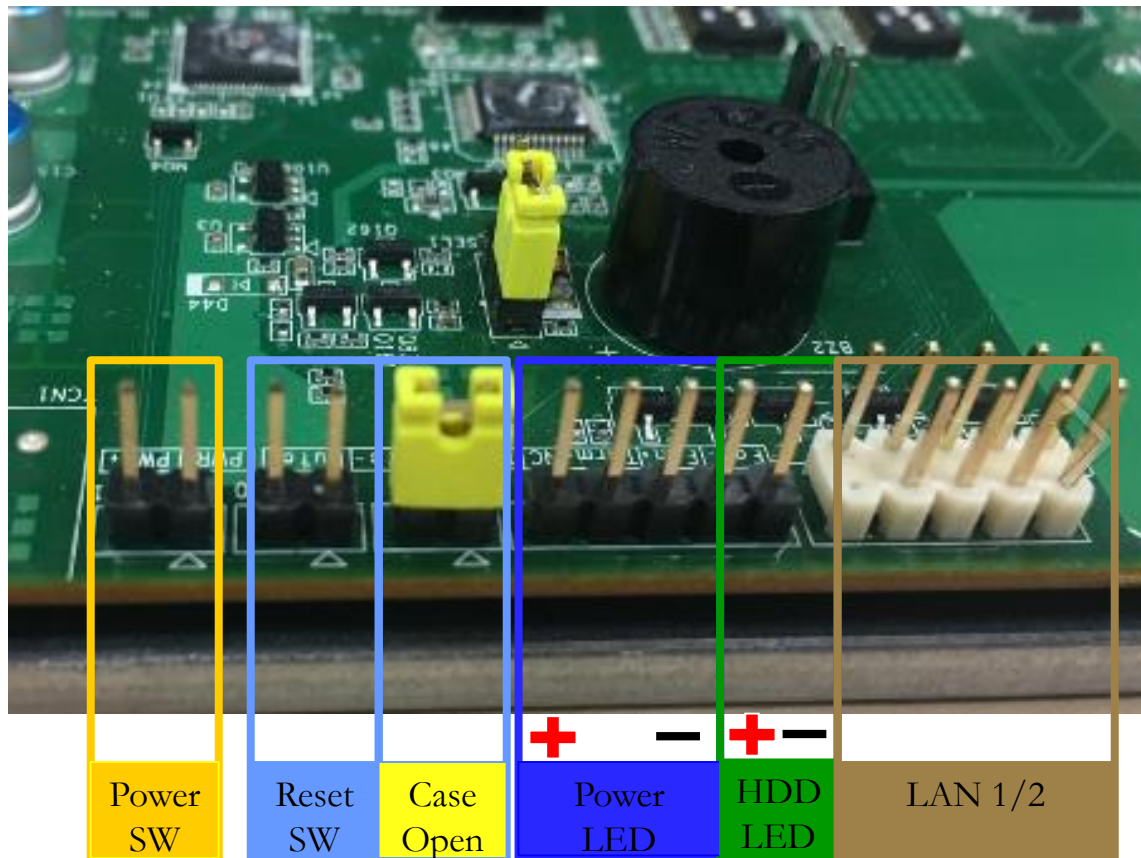
# Install ASR-1000K

# ASR-1000K Installation (1/2)



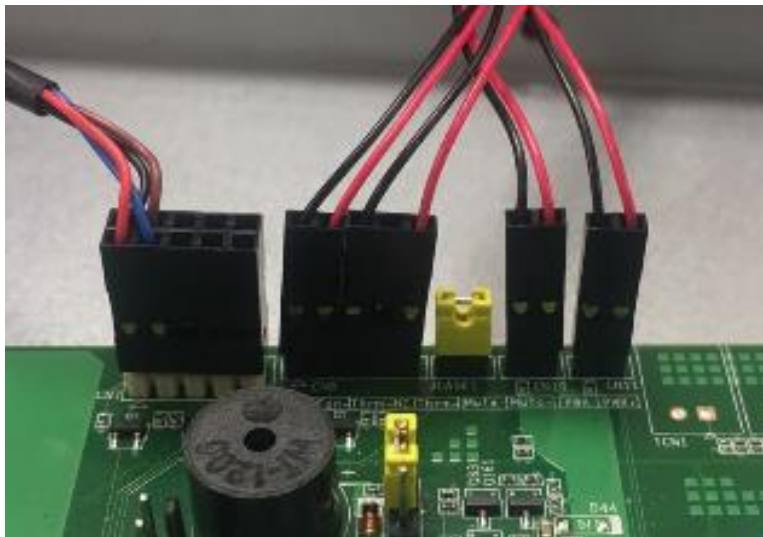


# ASR-1000K Installation (2/2)

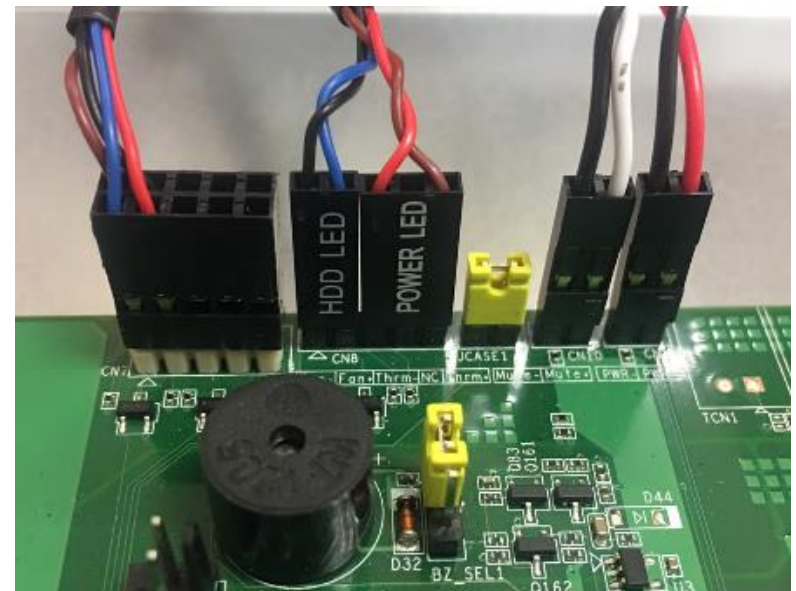


# Cabling in ASR-1000K

HPC-8212/8224/8424



HPC-8316  
(color may change)



# Cable Definition

SKU	Version	HDD +	HDD -	Power LED +	Power LED -
HPC-8316	Current	Blue	Black	Brown	Red
	Future	Brown	Black	Red	Blue
HPC-8212 HPC-8224 HPC-8424	Current	Red	Black	Red	Black
		2 PIN connector		3 PIN connector	

# ASR-1000K Real Assembling (8212)

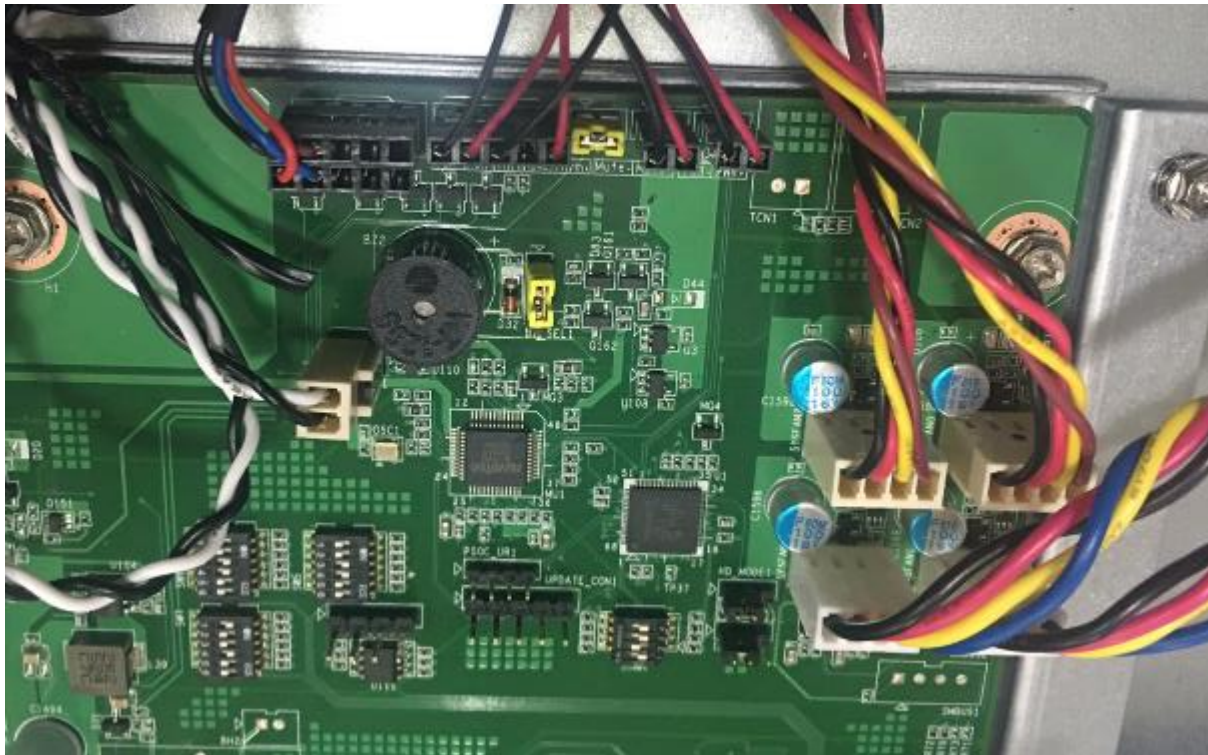


# Install FAN Cables



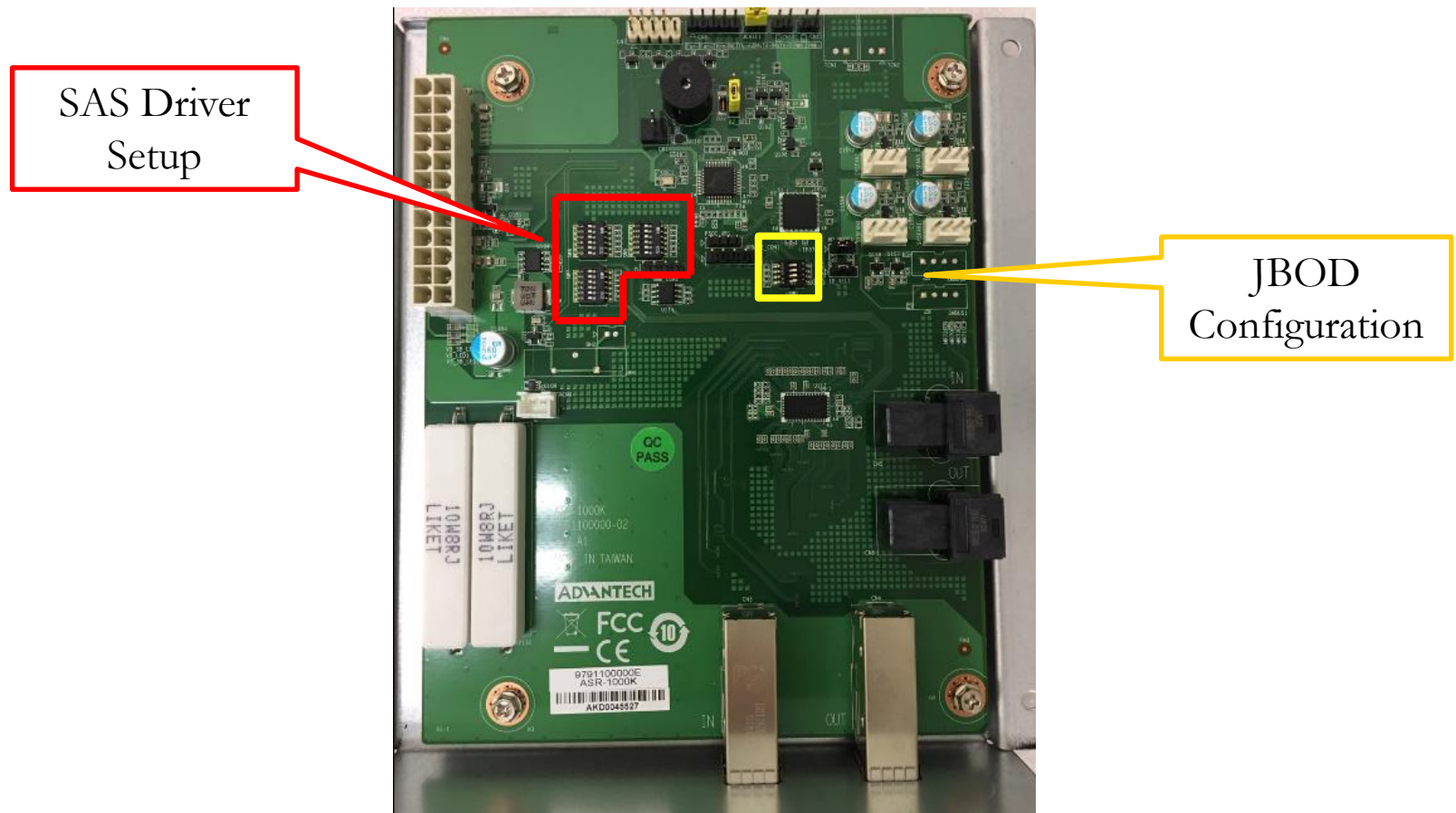
# FAN cables for ASR-1000K

- All of 4pcs PWM-connector cables must be directly installed in ASR-1000K  
=> **CAN'T** use Y-type FAN cable



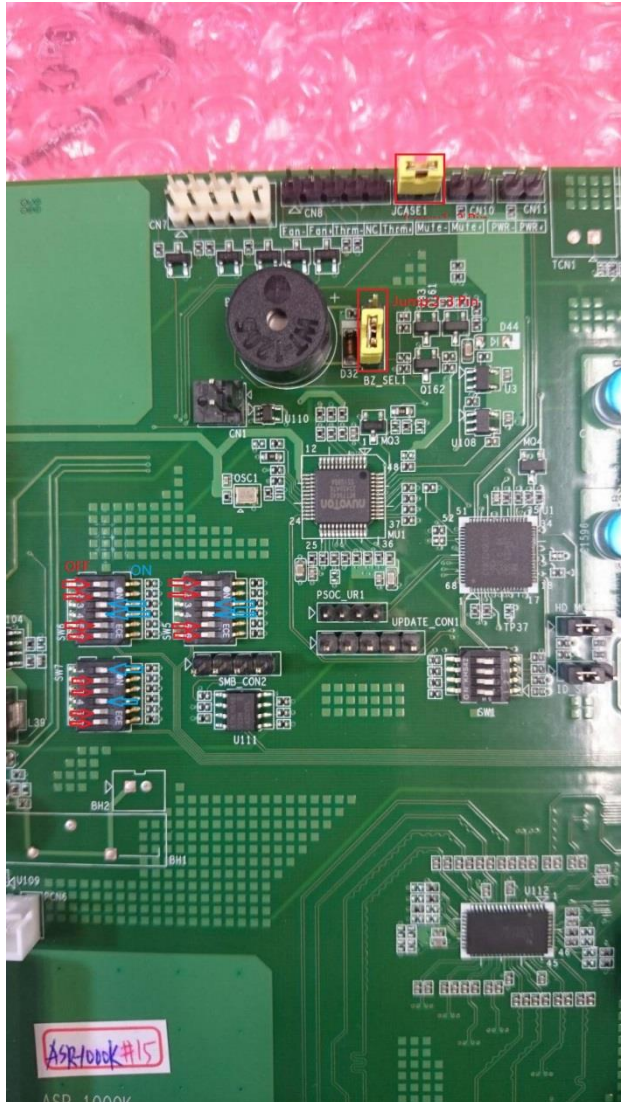
# JBOD Setting

# ASR-1000K DIP Switch





# Default Setting in ASR-1000K



SW5:  
Pin1 OFF  
Pin2 OFF  
Pin3 ON  
Pin4 ON  
Pin5 OFF  
Pin6 OFF

SW6:  
Pin1 OFF  
Pin2 OFF  
Pin3 ON  
Pin4 ON  
Pin5 OFF  
Pin6 OFF

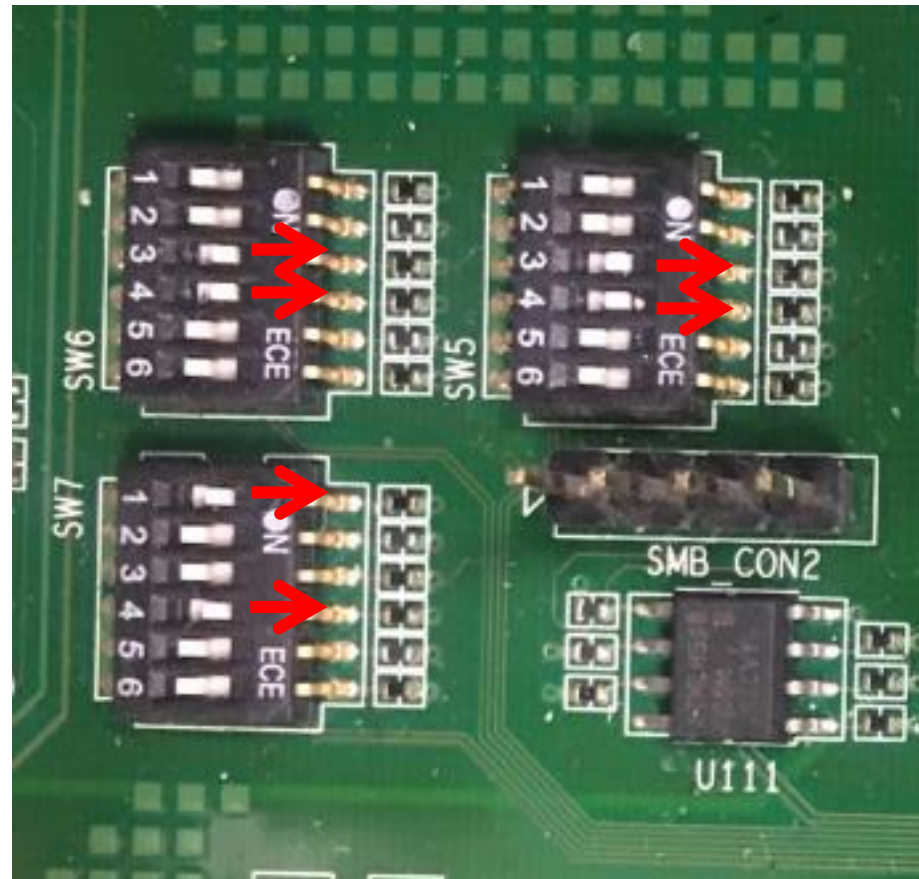
SW7:  
Pin1 ON  
Pin2 OFF  
Pin3 OFF  
Pin4 ON  
Pin5 OFF  
Pin6 OFF

BZ\_SEL1:  
(2-3)Pin

JCASE1:  
(1-2)Pin

# Check SW5/SW6/SW7 Setting

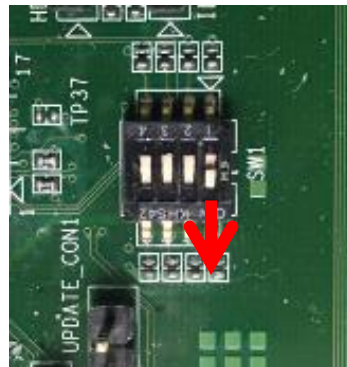
- Default Setting is the best combination



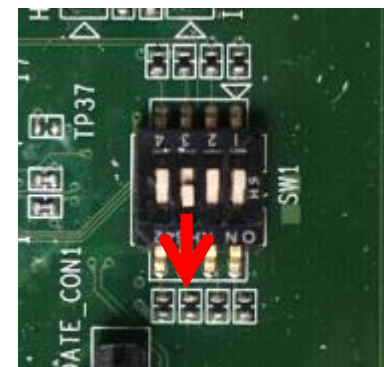
# JBOD Configuration



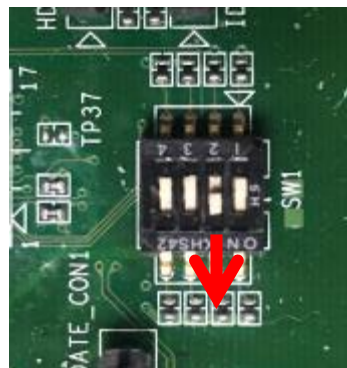
**Default**  
**All are off**



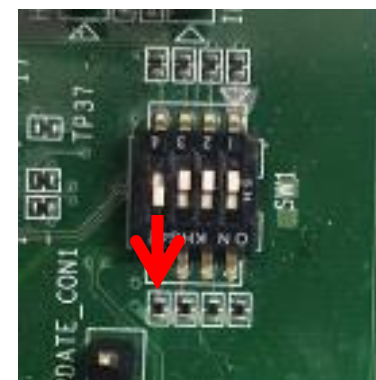
**HPC-8212**



**HPC-8316**



**HPC-8224**



**HPC-8424**

# Install FLB/USB Mylar

# FLB/USB Mylar

- ⇒ Remove original mylar by new JBOD mylar
- ⇒ JBOD mylars are placed on ASR-1000K box
- HPC-8212/8224/8424 (左邊請覆蓋USB, 右邊請付蓋 Front Panel Board)



- HPC-8316

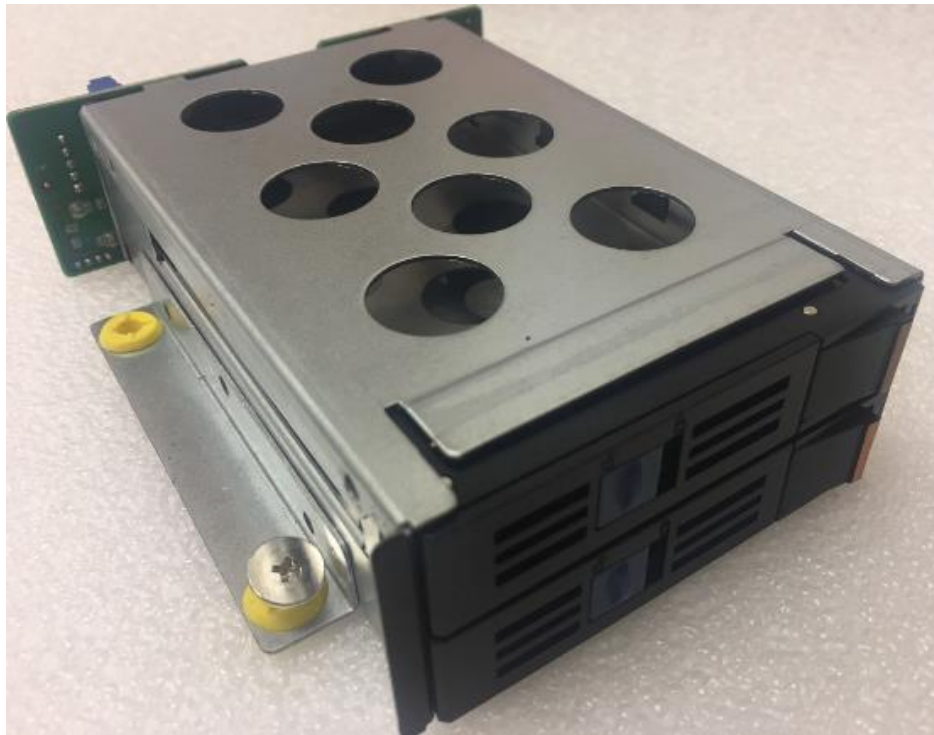


# **Add New Rear Cover (only for HPC-8316/8424)**



# Remove the Rear HDD Module

- Remove Rear 2.5"x2 HDD cage & 2pcs HDD Tray



# Add New Rear Cover

- Remove Rear 2.5"x2 HDD cage & 2pcs HDD Tray



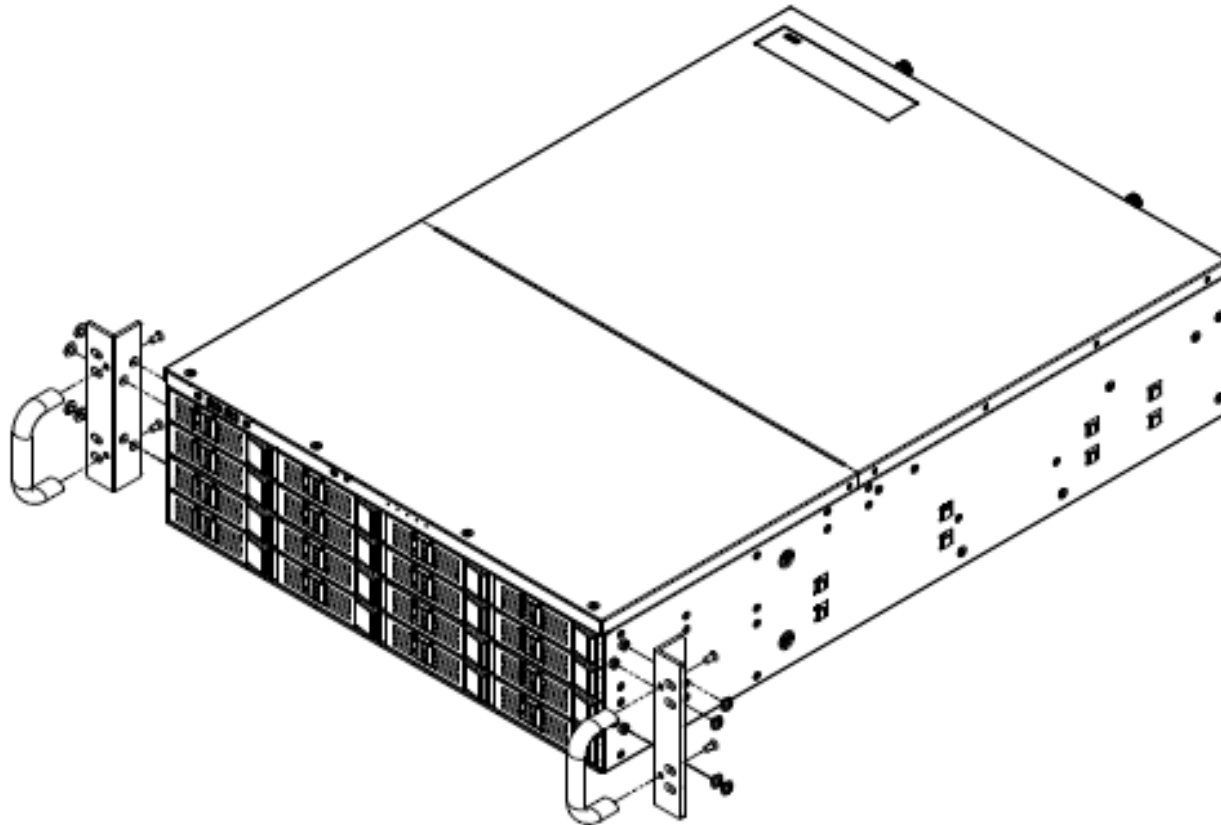
- After assembling





# **Install handles (only HPC-8316)**

# Attach the Ears & Handles



**Ears & handles are placed on the accessory box**

# Install Slide Rail

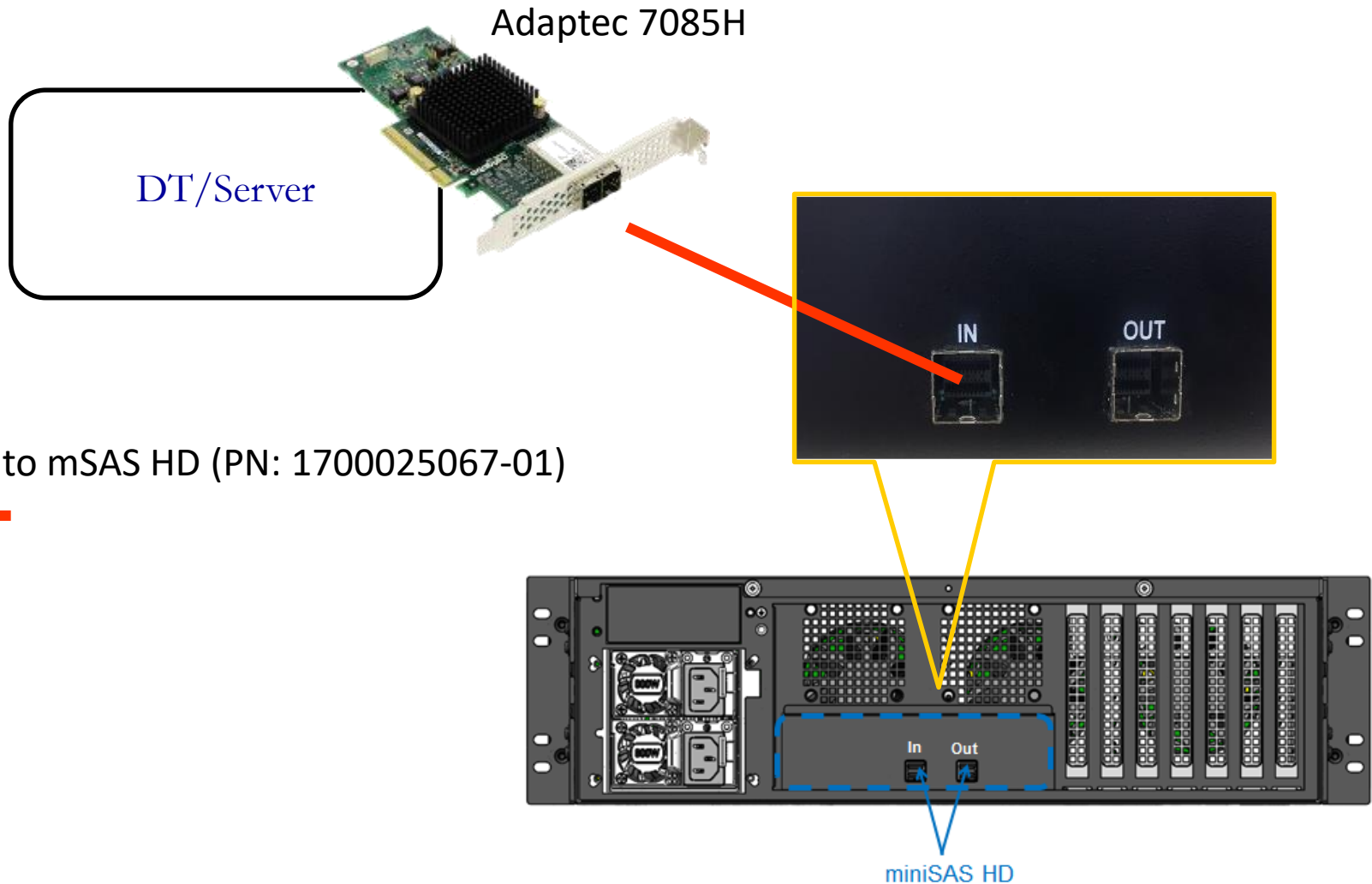
# Slide Rail on HPC-8000 Short Depth

- Slide rails are **default included** in the package

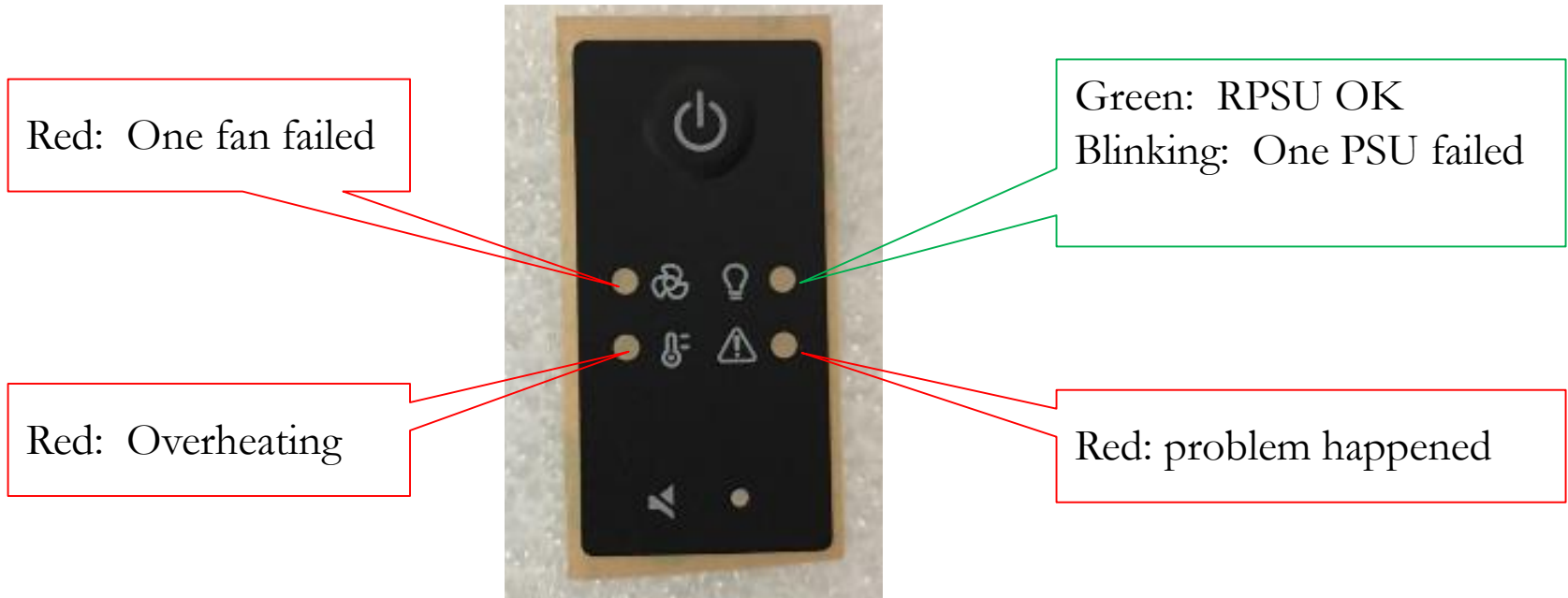
Model	SKU	Slide Rail PN	Remark
HPC-8212	<i>HPC-8212SA</i>	9680017208	22"
HPC-8224	<i>HPC-8224SA</i>		
HPC-8316	<i>HPC-8316SA</i>	9680016858	26"
HPC-8424	<i>HPC-8424SA</i>	9680017375	26"

# Test Program

# Test Environment



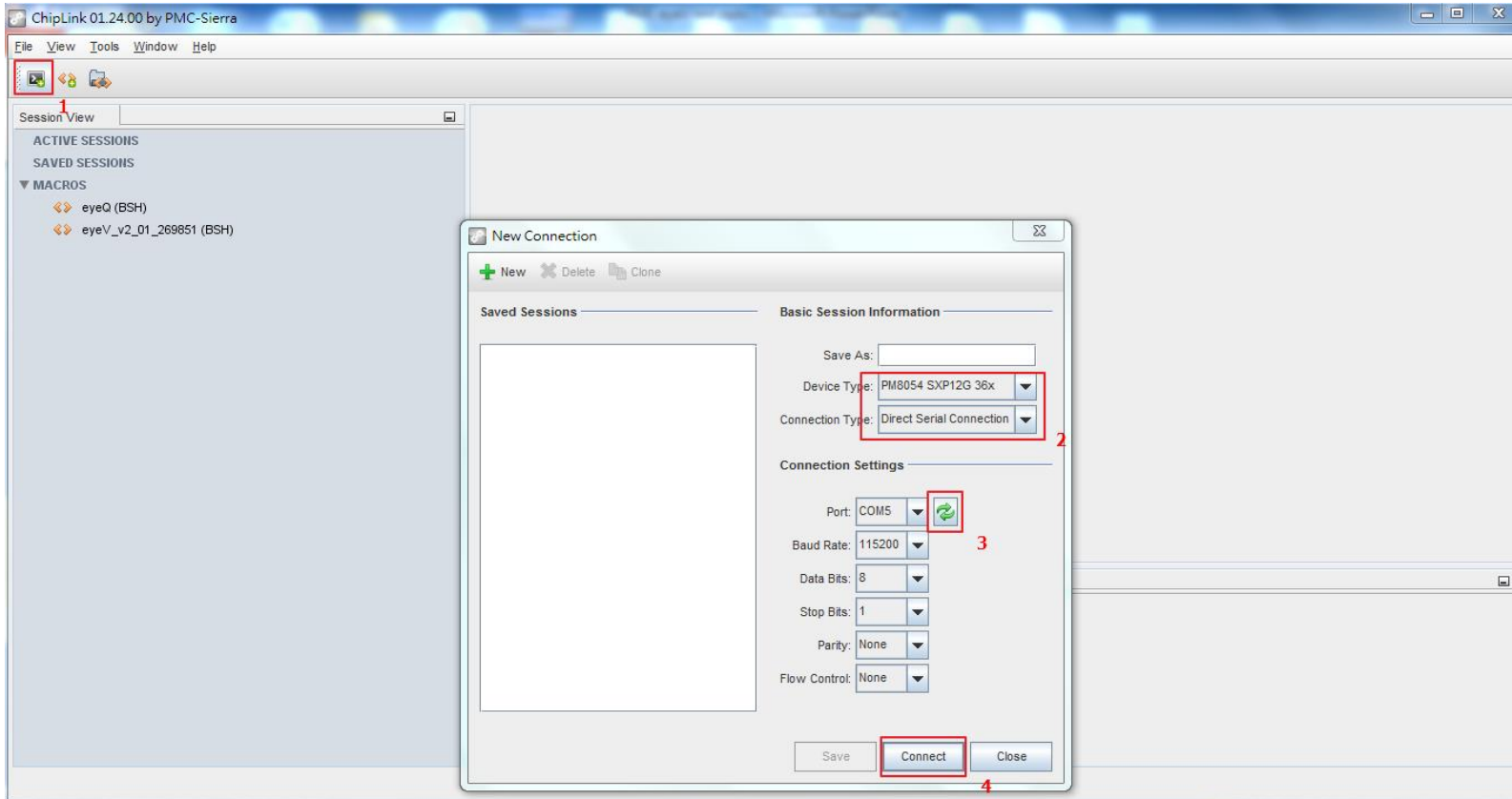
# Front LED Check



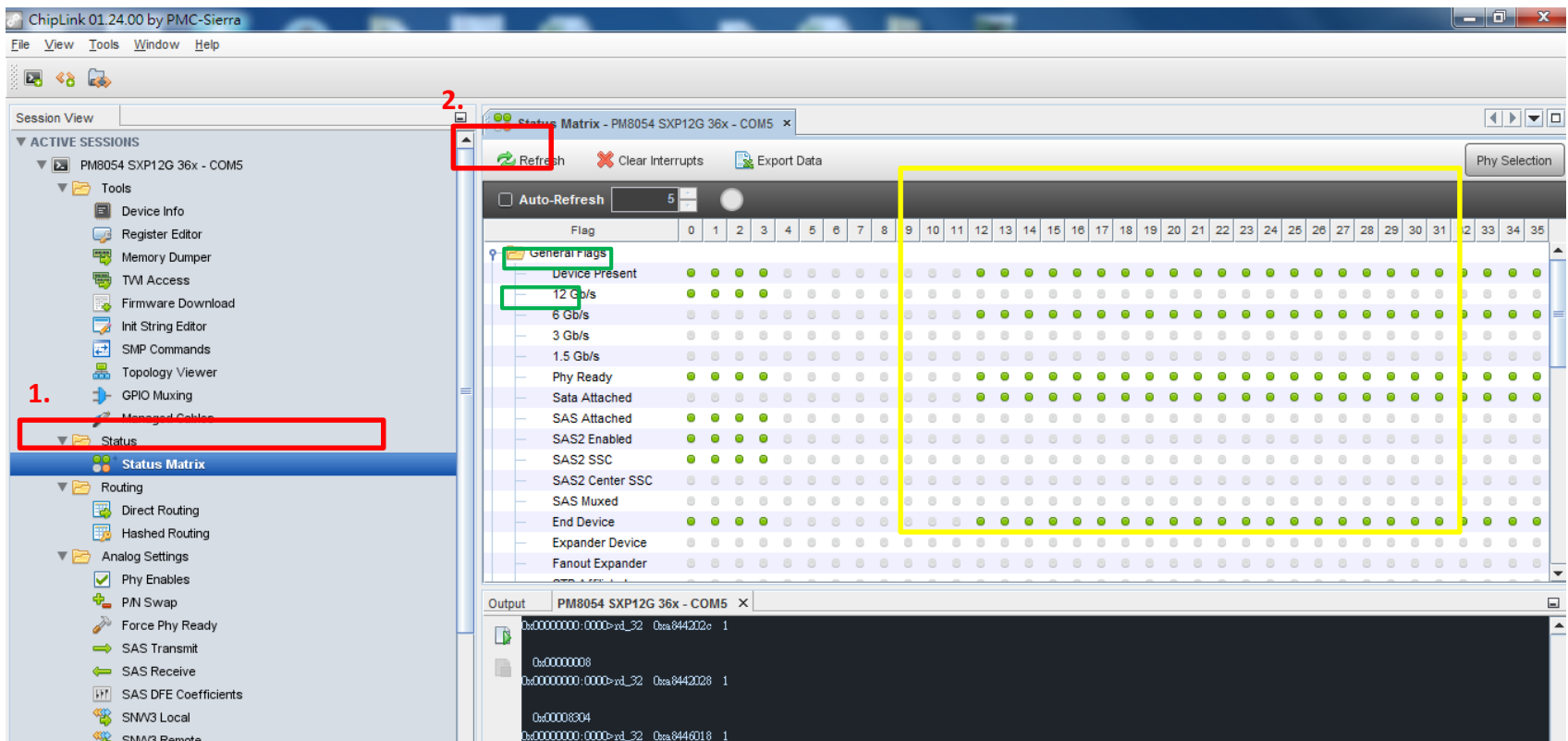
# Highlight

- To make sure the quality of system-level assembling
- Using Chiplink
- HDDs loaded are required

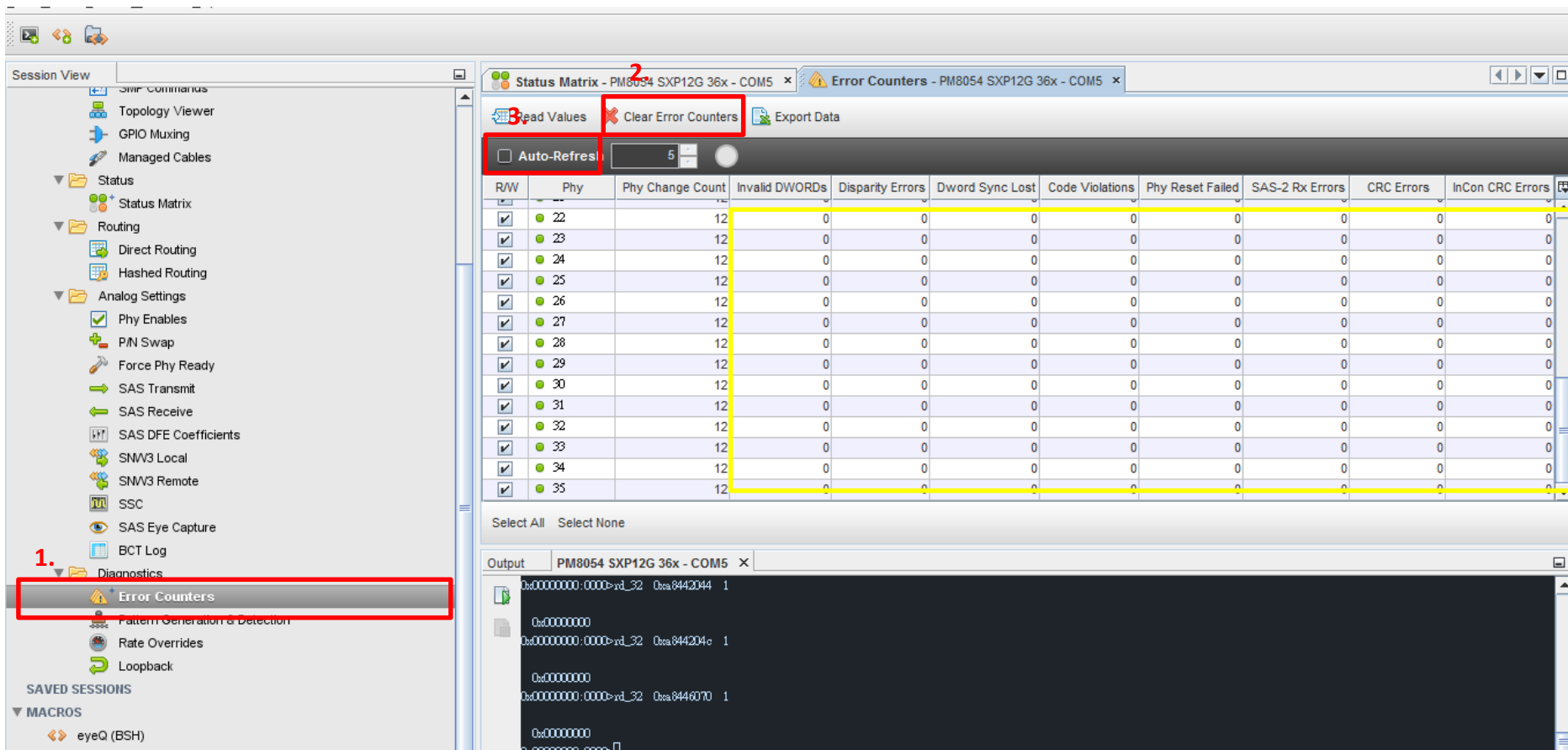




跑burn-in時,按照上圖步驟,連接至expander IC PM8054



按照上圖步驟,並請確認黃色框內的12~35的Device Present & 6Gb/s是否為綠燈.(SATA device看6Gb/s欄位,SAS device看 12Gb/s欄位)



按照上圖步驟,並請確認12~35黃框內的的數值,不可以超過10.(30秒內)

*Thank You*



*Enabling an Intelligent Planet*

**ADVANTECH**