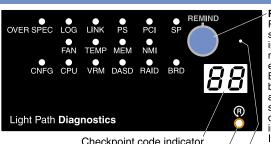
## **System Service Information**



#### **Light Path Diagnostics**



Checkpoint code indicator Reset button

into the Remind everv 2 seconds). By pressing the button, the user acknowledges a system error but does not take nediate action. If a new failure error LED will turn

		NMI button on again.
LED	Description	Action
	Power supplies are over their max rating.	Add power supply option if only one is installed. Replace failed power supply. Remove optional devices.
LOG	Information is present in the System Event Log.	Read information in the System Event Log and take appropriate action. The Remind Button also turns off the System Information LED and the LOG LED.
LINK	QPI Expansion port or cable fault. (scaled systems only)	Check QPI Expansion port link LEDs to identify failed port/cable (LED is below and to the side of the rear QPI ports, off=problem). Reseat cable. Replace cable.
PS	Power supply has failed.	Check power supply AC, DC, and Error LEDs. Check input AC power. Reseat installed power supplies. Replace failed power supply.
PCI	Error on indicated PCI bus.	Check system error log and I/O board LEDs to identify failing bus. Replace failed card.
SP	Service processor error.	Update firmware on uEFI and IMM. Power down, disconnect then reconnect AC power, restart system.
FAN	Fan failure.	Check LEDs on hot swap fans. Ensure indicated fan is seated properly. Replace indicated fan. Ensure all fans are installed.
TEMP	Temperature threshold has been exceeded.	Ensure all fans are seated properly and replace any failed fans. Ensure that room temperature is not too high. Ensure that no air vents are blocked and system cover is installed. Have system serviced.
MEM	Memory error has occurred.	Press light path button on memory tray, if installed, to find problem DIMM. If not on this tray, remove memory tray and press light path button on system board. Reseat indicated DIMM. Replace indicated DIMM.
NMI	Machine check error occurred.	Check system error log. Reboot system.
CNFG	Hardware configuration error occurred.	Check system error log. Check other LEDs on light path panel and subsystem LEDs on or next to the devices that are configured incorrectly. Check that the two microprocessors installed match each other. Check memory configuration.
CPU	Microprocessor has failed.	Check microprocessor board LEDs to identify failed CPU. Reseat CPU. Replace failed CPU.
	Reserved.	Reserved.
DASD	Hard disk drive error.	Replace drive with lit error LED. Drive is missing and should be reinserted in the same location. Replace DASD backplane.
		-

NOTE: After removing the top cover, press the light path button on the memory tray (if installed) or the system board to light the LEDs on the failed part.

Check system error log. Check system board LEDs.

Replace indicated part or system board.

Reserved.

RAID Reserved.

BRD Indicated board

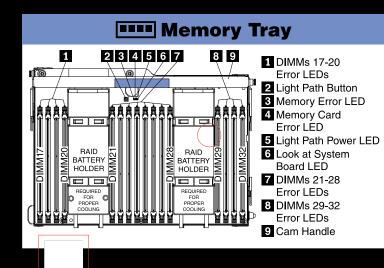
# **PCIe Adapters** Adapters riser-card 1 riser-card 2

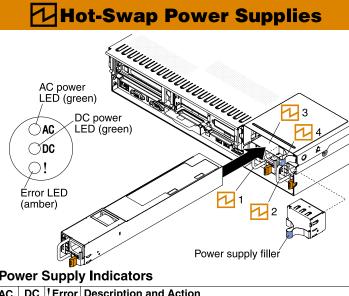
#### **Memory**

#### **DIMM Pair Installation Order**

DIMM Slots		Install	DIMM Slots
Populated		Order	Populated
1 and 8		9th	17 and 24
9 and 16		10th	25 and 32
3 and 6		11th	19 and 22
11 and 14		12th	27 and 30
2 and 7		13th	18 and 23
10 and 15		14th	26 and 31
4 and 5		15th	20 and 21
12 and 13		16th	28 and 29
	Populated 1 and 8 9 and 16 3 and 6 11 and 14 2 and 7 10 and 15 4 and 5	Populated 1 and 8 9 and 16 3 and 6 11 and 14 2 and 7 10 and 15 4 and 5	Populated 1 and 8 9th 9 and 16 10th 3 and 6 11th 12th 2 and 7 10 and 15 4 and 5 15th

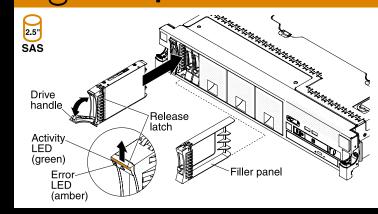
NOTE: Two microprocessors must be installed to use the memory tray.



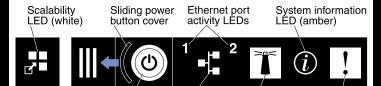


Power Supply Indicators						
AC	DC	!Error	Description and Action			
On	On	Off	The power supply is on and operating correctly.			
On	Off	Off	Action:			
			1) Reseat the power supply.			
			2) If 240 VA Error LED is on, replace system board.			
			3) If 240 VA Error LED is not on, replace power supply.			
Off	On	Off	The power supply has failed.			
			Action: Replace the power supply.			
Off/	Off/	On	The power supply has failed.			
On	On		Action: Replace the power supply.			
Off	Off	Off	There is an AC power problem. Possible causes:			
			1) There is an AC power input problem.			
			Actions: Verify that:			
			The power cord is properly connected to the server.			
			The power source (outlet, PDU, UPS) is			
			functioning correctly.			
			2) The power supply has failed.			
			Action: Replace the power supply.			

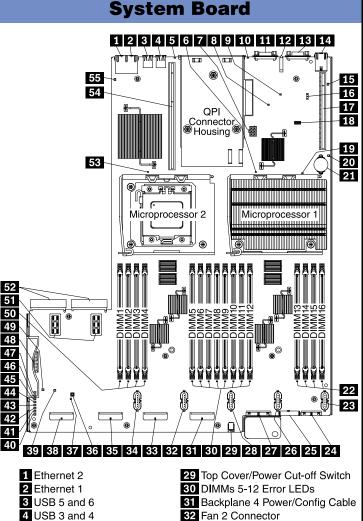
### **Hot-Swap Hard Disk Drives**



#### **Operator Information Panel**



Power-control button/ Ethernet Locator button/ System error power-on LED (green) LED (green) locator LED (blue) LED (amber)



5 Link OK LED, QPI Port 2 6 Microprocessor 1 Error LED 7 VGA Aux Power Connector 8 IMM Heartbeat LED 9 FPGA Heartbeat LED 10 Link OK LED, QPI Port 1 12 System/Locator/Power LEDs 13 Video 14 System Mgmt Ethernet 15 Riser 1 Missing LED 16 UEFI Boot Recovery Jumper 17 Riser 1 Connector

18 Switch Block 19 H8 Heartbeat LED 20 Battery Error LED 21 3V Lithium Battery 22 DIMMs 13-16 Error LEDs 23 Fan 5 Connector

24 Front USB/Video 25 SATA DVD/Simple Swap HDD 52 Power Supply Connectors 26 Fan 4 Connector

27 Front Operator Panel 28 Fan 3 Connector

32 Fan 2 Connector 33 Backplane 3 Power/Config Cable 34 Fan 1 Connector 35 Backplane 2 Power/Config Cable 36 Light Path Button 37 Light Path Power LED38 Backplane 1 Power/Config Cable **39** 240 VA - A Error LED 40 Power Channel C Error LED 41 Power Channel D Error LED 42 Power Channel E Error LED43 Power Channel F Error LED 44 Power Channel G Error LED45 Cover Latch Open LED 46 Over-Current 47 System Board Error LED 48 Power Interposer Cable Conn. 49 240 VA - B Error LED 50 DIMMs 1-4 Error LEDs
51 Power Interposer Card Conn.

53 Microprocessor 2 Error LED

54 Riser 2 Connector

55 Riser 2 Missing LED

tta on a component indicates that the component can be hot-swapped. Hot-swap means that if the system, operating system, and configuration all support hot-swap capability, you can remove or install the component while the system is running.

425 mm Red Outline is for Die Cut ONLY Red Outline is for Die Cut ONLY!

Graphics shall conform to the Artwork above.

2. Ink colors to match PMS BlackC. PMS 1525C. and PMS 2718C.

3. Fonts: Helvetica and Helvetica Black

4. Refer to label print part number 59Y7532 for manufacturing and

Must conform to Eng. Spec: 80X2324 Tolerances unless noted: Linear 0.3

