

JBOG specifications

Rev 0.1

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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
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| 02/25/2020 |  | Rev 0.1 | Initial release |
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|  |  |  |  |

# Scope

This document describes technical specifications for the JBOG

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# Overview

This project is designed to bring small calculation solution to people who want to use OCP products.

This JBOG (Just a Bunch Of GPU) should allow people to use small GPUs solution for their system, depending on their needs. The JBOG board needs to work with a server head node such as Leopard since there is no server head node in this JBOG design. The JBOG will support PCIe form factor GPU

Below is a list of the main components of each board:

|  |  |
| --- | --- |
| Item | Description/Major components |
| Baseboard | 1 PCIe switch  4 x16 PCie Gen3 slots  BMC  Power connector from rack bus bar  4 mini SAS HD connector |
| IO board | BMC network port  Debug support  LEDs  USB connector |
| Host side bridge card | 4 mini SAS HD connector  X16 PCIe Gen3 retimer |
| Fans | TBD |
| Power supply | Should be compatible with Discovery chassis and Open Rack V2 |
| Chassis | TBD |

# Electrical specification :

Head node will be a Leopard (Haswell or Broadwell).

We will use a Facebook PCIe Retimer Card (RC) as the host side bridge card on the x16 riser slot on the Leopard riser.

Connection between JBOG and RC will be done via 4 mini SAS HD cables. They will be connected to 4 mini SAS HD connector on JBOG and RC side. We will bring x16 PCIe lanes with those cables so we will have x16 PCIe lane upstream

We will use a switch PEX8780 (80 lanes) with 16 lanes upstream and up to four x16 devices downstream. Upstream device will be connected to station 0 of the PEX8780 while station 1, 2, 3 and 4 will be connected to the four downstream devices.

Une image contenant capture d’écran

Description générée automatiquement

Figure 1: PCIe interface

Hot plug implementation will depend on the mechanical solution we choose. If the 4 GPUs are directly on the backplane, we will need hot plug at the JBOG level, not at the downstream level while if we use some modules that we plug on the backplane we will need hot plug at downstream level to be able to plug on or off modules with GPUs on the backplane.

Downstream clock will be driven by the x16 upstream port clock (coming from the server). It will pass by a clock buffer before being distributed to every downstream port.

An onboard reset system has been implemented.

The switch PEX8780 will be programmable via an external EEPROM and an I2C interface.

LEDs on the board should be visible to indicate whether the JBOG is working correctly or not and to give several other indications (correct voltage, power good on downstream devices etc).

A BMC will be implemented to be able to manage the JBOG remotely.

An IO board will be connected to the JBOG via a PCIe connector to allow to have access to network via RJ45 and to plug USB devices. If it is possible, RJ45 and USB connectors should be implemented directly on the backplane.

An onboard switch will be implemented for debugging purpose

It should be able to have NVLink between different GPUs

# BMC

BMC should allow users to have access to different information and options of different devices implemented on the JBOG. Each slot should be remotely manageable. Remote manageability of the BMC will be over IP using SSH/OpenBMC protocol. There should be enough GPIO on the BMC to be able to control every signal we want/need to manage.BMC should respect the timing specification explained in section 7. BMC on JBOG can have the ability of accessing system health information and log, and initiate preventive measures for system failure

## Management network interface

JBOG’s BMC network interface is accessible in the front of the chassis via RJ45 connector

RJ45 network connector should be capable of 10/100/1000 IEEE802.3 Ethernet connectivity

LED on RJ45 should indicate whether the link is up or not and the connectivity speed. LED behavior of the RJ45 will be described later (section 9)

## EEPROM

BMC should have access to the EEPROM on the system. FRU data (serial number, part number, model and asset tag) should be included in the EEPROM (if there is not enough space on the PEX EEPROM, use a second one). It should be possible to update EEPROM remotely via SSH/Open BMC.

## I2C/SMB connection

I2C/SMB connection of the BMC needed on the JBOG is shown in the I2C map below:

|  |  |  |
| --- | --- | --- |
| Channel number | Connected to | Description |
| 1 | GPU1 |  |
| 2 | GPU2 |  |
| 3 | GPU3 |  |
| 4 | GPU4 |  |
| 5 | Thermal sensor TMP75AIDR | Check location + address I2C |
| 6 | Mini SAS upstream | I2C coming from head node |
| 7 | PEX 8780 | PCIe switch 1 |
| 8 | Voltage regulator for 0.9V and main board | VR1 = 0x  VR2 = 0x |
| 9 | Thermal sensor TMP75AIDR | Check location |
| 10 | JBOG EEPROM | JBOG EEPROM (PEX + FRU info) |
| 11 | JBOG clock generator | 100MHz clock generator from head node to PCIe device and PEX |
| 12 | CPLD |  |
| 13 | LM421 temperature sensor on IO board | Sensor to measure chassis ambient |

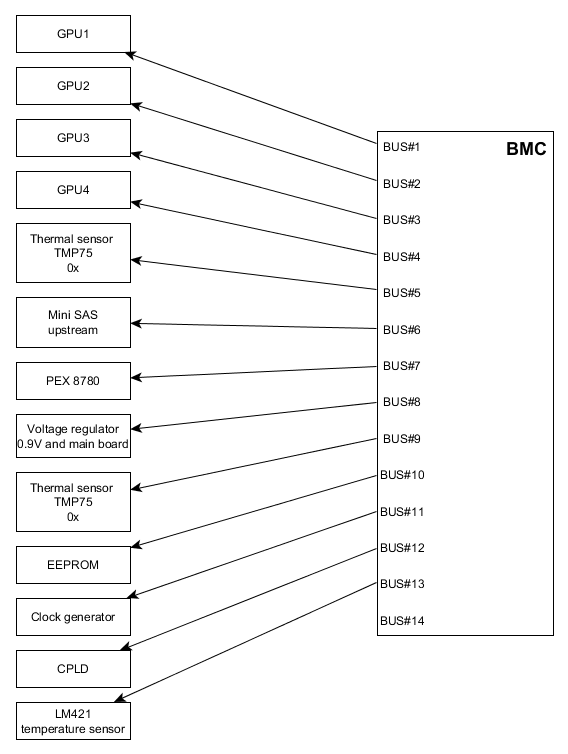


Figure 2 I2C/SMB connection of the BMC

## Remote power control

BMC should have the following capacities:

* Indicate if a slot is populated or not
* Support remote power on/off and reboot of the whole system either through In-Band or Out-of-Band IPMI command
* Support power on policy to be last-state, always-on and always-off upon recovery from an AC

power loss event. The default setting is to be always-on. Power policy changes can be done through IPMI command and take effect without a cold reset or system reboot.

* Take no more than three seconds to be able to process a power button signal upon AC power on.

## Power/Thermal monitoring

BMC needs to support power and thermal monitoring of the whole system. Limits are set to prevent failure from the system. In the event of the power/temperature exceeding their limit, BMC should be able to log the event and initiate preventive measures to avoid system meltdown.

## Debug support

Two types of debug support connector will be on the board. They should be accessible at the front of the chassis. First prototypes should have DIP Switches on it in order to have access to some critical signals and allow us to simplify debugging. Those switches should be removed from the design once debugging is finished.

The first is a 14-pin 2x7 header with pin arrangement shown below:

|  |  |  |
| --- | --- | --- |
| Pin | I/O/IO | Description |
| 1 | O | Low HEX character [0], LSB |
| 2 | O | Low HEX character [1] |
| 3 | O | Low HEX character [2] |
| 4 | O | Low HEX character [3], MSB |
| 5 | O | High HEX character [0], LSB |
| 6 | O | High HEX character [1] |
| 7 | O | High HEX character [2] |
| 8 | O | High HEX character [3], MSB |
| 9 | O | UART transmit from system |
| 10 | I | UART receive into system |
| 11 | I | Reset signal from button. Active low |
| 12 | I | Present/UART channel select |
| 13 | GND | Ground reference pin |
| 14 | O | 5V from system to OCP v1 debug board |

The second debug support is a 4-pin 2x2 header with pin arrangement shown below:

|  |  |  |
| --- | --- | --- |
| Pin | I/O/IO | Description |
| 1 | O | 5V from system |
| 2 | O | GND return |
| 3 | IO | SMBus clock |
| 4 | IO | SMBus data |

## Sensors used

BMC should have access to every sensor on the board in order to support power/thermal monitoring, throttling and fan speed control. Limits of every sensors should be set (temperature, voltage, power, current

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sensor name | Sensor number | Lower Critical Threshold | Upper Non-Critical Threshold | Upper Critical Threshold | Availability |
| Temp\_Outlet |  | na | na | na | DC on |
| Temp\_Inlet |  | na | 40 | 42 | Standby |
| Temp\_PCIE\_Inlet1 |  | na | 65 | 70 | DC on |
| Temp\_PCIE\_Inlet2 |  | na | 65 | 70 | DC on |
| Temp\_PLX |  | na | 92 | 93 | DC on |
| Temp\_GPU0 |  | na | 81 | 82 | DC on |
| Temp\_GPU1 |  | na | 81 | 82 | DC on |
| Temp\_GPU2 |  | na | 81 | 82 | DC on |
| Temp\_GPU3 |  | na | 81 | 82 | DC on |
| HSC\_Temp |  | na | 80 | 85 | DC on |

Figure Temperature monitoring sensors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sensor name | Sensor number | Lower Critical Threshold | Upper Critical Threshold | Availability |
| P3V3\_AUX |  | 3.04 | 3.55 | Standby |
| P12V |  | 11.24 | 13 | DC on |
| P3V3 |  | 3.04 | 3.55 | DC on |
| HSC Input Voltage |  | 10.98 | 12.96 | DC on |
| HSC Output Voltage |  | 10.98 | 12.96 | DC on |

Figure Voltage monitoring sensors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sensor name | Sensor number | Lower Critical Threshold | Upper Critical Threshold | Availability |
| HSC Input Power |  | na | 1380 | DC on |
| PWCS\_GPU0 |  | na | 420 | DC on |
| PWCS\_GPU1 |  | na | 420 | DC on |
| PWCS\_GPU2 |  | na | 420 | DC on |
| PWCS\_GPU3 |  | na | 420 | DC on |

Figure Power monitoring sensors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sensor name | Sensor number | Lower Critical Threshold | Upper Critical Threshold | Availability |
| HSC Output Current |  | na | 115 | DC on |

Figure Current monitoring sensors

## System event log (SEL)

Sensors exceeding their limits are to be logged in the SEL

## Fan speed control

We will need to have access to all temperature and power sensors data to have an effective fan speed control. Moreover, we will need access to fan speed. Updates should take effect immediately without requiring a reboot

## BMC firmware update

A remote BMC software update should be supported due to potential lack of physical access to the system. BMC firmware update process requires no reboot or power down of the host system.

## Controller

The controller should have the following functions in order to support the BMC’s needs to monitor and control the system:

1. HSC signals (PGOOD, ALERT and ENABLE)
2. Access to HSC via PMBUS
3. Power and reset sequencing for the system
4. Fan control (PGOOD, LED, PRESENT)
5. GPU throttling

## Controller firmware update

BMC should access JBOG Controller through JTAG and performs a code upload from the remote-control server to the BMC, update code from the BMC to the Controlelr and verify Controller code.

# Timing specification

For the PEX8780, there is no power sequencing requirements.

System hardware initialization within 20ms (PCI Express Base r3.0) so EEPROM initialization time is also within 20ms

The sampling rate of every sensors should be more than 1 sample/s

HSC or external circuit should provide fast (<20µs) alert to trigger system throttling. This feature needs to be controlled by BMC. Frequency of controller should be less than 50kHz

Reset and clock initialization timing of the PEX:

|  |  |  |
| --- | --- | --- |
| Td1 | REFCLK stable to PEX\_Reset release time | 100µs |
| Td2 | PEX\_Reset release to Reset de-bounce | 1.32ms |
| Td3 | Reset de-bounce to Phase-Locked Loop (PLL) Lock | 105µs |
| Td4 | Reset de-bounce to Core Reset release | 2.63ms |
| Td5 | Serial EEPROM load time with no serial EEPROM present | 17µs |

# Power specification :

## Input voltage

Main power will come from bus bar (12V). Power zone has been divided into 2 parts:

* One part to power switch PEX8780
* One part to power up onboard devices

The JBOG shall accept and operate normally with an input voltage tolerance between 10.8V and 13.2V. The JBOG under-voltage protection level should be less than 10.1V.

No power will come from the mini SAS HD connector

Below is a diagram of the different power part within the JBOG:

Une image contenant horloge

Description générée automatiquement

Figure 7 : JBOG Power Design

A 8xpins power connector with 12V will be implemented in order to power up each GPU (power up just using PCIe is not enough since there won’t be enough power, 75W max for a x16 PCIe slot)

Questions:

* Which type of GPUs are we gonna use? We need to define it in order to know the maximal power used by the JBOG

## Hot Swap Controller (HSC) Circuit on 12V

There will be two Hot Swap Controller:

* From 12Vbusbar to 12Vaux, the 12Vaux will go to the BMC. Once BMC receive the 12Vaux\_PGOOD signal it will send the 12V\_ENABLE signal to the second Hot Swap Controller
* From 12Vbusbar to 12V

HSC circuit provides the following functions:

* Inrush current control when JBOG is inserted and powered up.
* Current limiting protection for over current and short circuit. Over current trip point should be able to set to ~200% of the maximum current the system will be experiencing.
* HSC UV protection should be set to 10V~10.1V
* SOA protection during MOSFET turning on and off
* HSC fault protection is set to latch off (default) with retry as stuff option
* PMBUS interface to enable BMC the following actions
  + Report input power and log event if it triggers upper critical threshold
  + Report input voltage (up to one decimal point) and log event if it triggers either lower or upper critical threshold
  + Log status event based on hot swap controller’s status register
* Use HSC or external circuit to provide fast (<20us) over current sense alert to trigger system throttling
* Use HSC or external circuit to provide fast (<20us) under-voltage alert to trigger system throttling

# User LED and buttons

This section describes the LED and buttons present on the JBOG

## Power button/LED and Status LED

A power button on the JBOG allows user to toggle system power. Embedded on the button is the blue Power LED. Behavior of this LED on different modes is as follows:

|  |  |  |
| --- | --- | --- |
| Behavior | DC Power State | System Locator State |
| Always OFF | OFF | NO |
| ON for 0.1s, OFF for 0.9s, loop | OFF | YES |
| Always ON | ON | NO |
| ON for 0.9s, OFF for 0.1s, loop | ON | YES |

The blue/orange STATUS LED nearby the power button has the following behavior:

|  |  |  |
| --- | --- | --- |
| Behavior | BMC Ready | System Log |
| Always OFF | NO | X |
| Blue ON | YES | NO |
| Orange Blinking | YES | YES |

## Network Port LED at RJ45

The network port has two LEDs as shown below:



These LEDs behavior are as follows:

|  |  |  |
| --- | --- | --- |
| Network Port mode | Link (Upper Left) LED | Activity (Upper Right) LED |
| No link | OFF | OFF |
| 1Gps Link | Amber ON | Green blink when activity |
| 100Mps Link | Green ON | Green blink when activity |
| 10Mps Link | OFF | Green blink when activity |

## FAN LED

Fan LEDs on fan modules should be present and visible from the back of the system. Fan LED on the fan module behaves as follows:

|  |  |
| --- | --- |
| LED Behavior | Fan State |
| OFF | No Power |
| BLUE | FAN OK |
| RED | FAN Speed Lower than set threshold or Fault |

# Mechanical specification :

Board should fit in a Leopard form factor chassis (790x170mm). No matter if we reuse a Leopard chassis or design a new one, the design of the backplane shouldn’t exceed the Leopard form factor chassis.



Figure 8: Mechanical dimension

Every PCIe connector will be x16 form factor to avoid compatibility problems if we were using smaller PCIe form factor connector (x1, x2, x4 or x8). This will allow us to use every PCIe GPUs available.

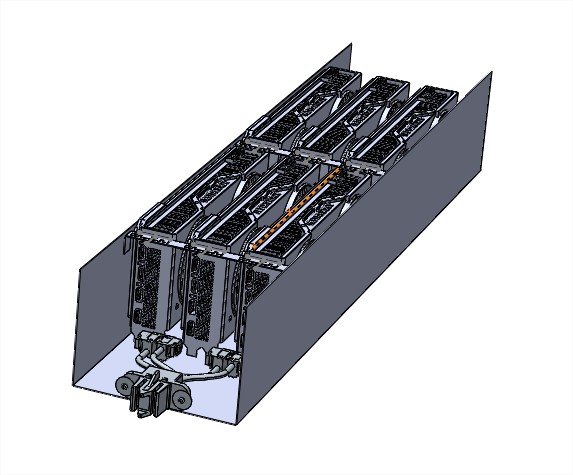
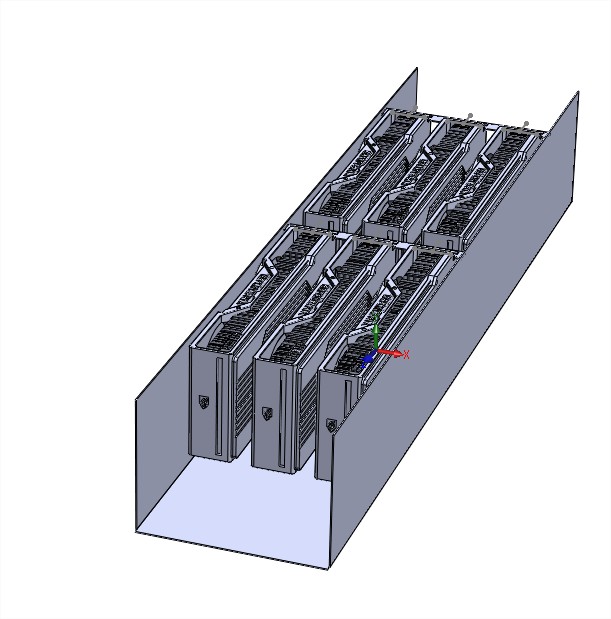
Board will be connected to the server by mini SAS cables. We will plug a riser on the server with mini-SAS HD connectors on it. Connectors on the riser and connector on the PCIe Switch board will be the same which will allow us to connect them by cable.

Chassis should be compatible with Open Rack V2, Discovery chassis and Leopard Broadwell/Yosemite V1 cubby.

**Solution 1:**

GPUs are vertical so JBOG occupies 3x OpenU (OU) of space. No riser needed, GPUs are directly plugged on the backpanel

Figure



**Solution 2:**

GPUs are horizontal. We need to design a riser that we plug on the backpanel. GPUs are plugged on this riser. If 2 GPUs can fit horizontally on top of each other, we can use a Leopard chassis.

Une image contenant équipement électronique

Description générée automatiquement

Figure Front view

![Une image contenant équipement électronique, ordinateur

Description générée automatiquement](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S36RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjAyOjE0IDIzOjE0OjA3AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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/hm/wozDFpN2/wCXqT/GlP7N3hQ4xaTDHpdSc/rXsHln0oWOgDx7/hm7wpx/okwYccXUn+NH/DN3hQtzaTe3+lyf/FV7D5eaPLP40gPHl/Zt8Kbifsk2e3+lSf40f8M2+FFXH2WZh73Un+New+XRspgePf8ADNvhTaT9jm6YH+lSen1pw/Zv8KbSBZzDPcXUn/xVev8Al+g4o8ukB46v7NvhMZItJum3/j6k/wAad/wzb4Uxj7JMcHOTdSf/ABVev+V3pfK9aLAeP/8ADNvhTb/x5zY97mTP/oVH/DN/hQ/8ukwPXP2qT/GvYBHR5fPHSgDx5f2bvCp4NpNj0+1Sf40f8M1+EzyLOYHv/pcg/rXsXl+2aPLPSmB49/wzZ4Uxj7JN7D7VJ6/Wgfs2eFMn/RJif+vuT/4rtXsPl8+lL5dAHj3/AAzX4U72cw55/wBJk/8AiqP+GbfCnA+yTev/AB9Sf/FV7D5eelHl+vegDx7/AIZr8KZXFnMuPS7k/wDiqT/hm3wpvz9kn9v9Lk/xr2Ly6PLpAePf8M1+FNxP2SY5/wCnqT/Ghv2bfCn/AD6Tf+BUmP8A0KvYvL55FHl4PIosB46P2a/Ce3izmxjGPtcnp/vfhR/wzZ4UwcWcvPOftUgx+tex+X6Unl/jRZAeO/8ADNfhNhzZzen/AB9Sf407/hm3wnt4s5l/7e5P/iq9h8v86PL7dqLIDxz/AIZs8KMp/wBEmI9DdSf/ABVO/wCGa/CmOLOYH1+1yf417F5fJ60mziiyA8dX9mzwpk5tZ8Ht9rk/+KpP+Ga/ChYN9jm4HT7VJ/j6V7J5dHl4osB43/wzT4TGf9En/wDAuT/GrMf7OnhJf+Ybu6E7riT/AOKr1vy+1Hl9sUwPLI/2ffCCtn+x42P+1I54/Or0PwP8IR5B8PWEnr5kQb+dei7OaXyzQBx9n8NfDtkVMOh6dHt4Hl2yDH6Vs2+hWcC4S1hi9ljAxWv5dHl0AUFsUX7qqPoKf9lA6Crvl/jR5dAFRbfpTlh46cVZ8ul28UAVhCOn50vkj0qxt70oU0AV/JHq35UVZ2/5xRQBvE8Un40fSkoASkIp3HpSfWgBtNxT6T0oAbtpMU7ikoAbtpNvSnUYoAZtpGWn4pMUAM20m2pNtJigCLbSbKmK0m2gCLbmkK1NtpNtAEO2k254qfbSbfagCDZ0pPLqfbSbaAITHSban2/lTdtAEOzrR5fpU+2k20AQbaDH2qfb+VJtoAh2Cjy/Spdv5UbaAIdppNnep9opNvWgCHYe1J5ftU+3vRtzQBB5fXik2VYK/jRtxQBX8uk2VY20bRQBB5dJ5f0qxspNtAFfy6PLqfZRs/GgCv5dL5dWNlJtoAr+XR5dWNn5Um2gCvsNHl1Z2Um2gCDy6Ty6sbaNv4UAV9n6UeX+dT7aXYKAK/l4pPLqzt/Ok2D0zQBBsoMean20eXQBX2H6UbKn2+v8qXbQBX8ujy/wqxs/CjZ1oAr+XRs/GrGyk2e1AEBjo8vtU+2jaKAK/l5pfLqfZQI6AINlJ5dWCtGz2oAg2Zo2fhU+2jbQBB5dHl1Ps4o2igCv5dHl1Y20baAK/l0vl1Pto20AQbfak8urBWjZmgCDy8UeX0qfbRsoAg8v8qNhHap9lG2gCDyxSGP86sbaNvagCDy8e1Gyp9vtRsoAg8v25o8v8Kn2ijZ0oAh8uk8up9tG0UAV/LHWlKZqfbzRt68UAQeXjtSeX68VY20baAIPLo2enFTbe1LtxQBB5f4UbM8Y4qfbRtoAg8ujy/8AOKn20bQPpQBB5fWjy+man20bc0AQeX7UeX2qfbRtx9KAIPL/AFo8sVPto2/5zQBBs60eXU+3FGygCDy6PLqfZn2o2UAQeWPSgRip9tHl0AQeX60eX3qfbRt9OKAIPLo8vvVjbRt9qAK/l0GMVY2j6UbRzQBX8v0o8urG3vjNG32oAr+X+VBjqxto2+1AFfb1o8voKsbaNtAEGyjy/Sp9lG2gCDyzR5fep9ntRgfWgCHy6TyxU+2l2CgCv5fNHl1Ps60u2gCuI+aPLqfbS7fagCDZ04o8v05qfbmjbn3oAgEdHl9qn2/nRt70AQeX+NHl9qn2UbfagCDZxS7e3apttGzNAEPl57UbKm2UbKAIfL5o8v2qfZ+dGzpQBBsNGzvU+324pdvPSgCv5fQUoSptntS7aAINtGyptvrS7R6UAQbaULU22l20AQbKPL5qYLijbQBDspdmfaptvWjbQBDtoCVNt9aXbQBB5f40bP8AIqfb6UbaAINlLs/GpttG2gCHZ/nFG2p9tJtoAi8v1FJtqfaKNtAEO3rR5Z5qfbSbaAIdlHl9qm2flS7aAINn50bfyqbb7Uu2gCHYKAlTbaNtAEWz8qNnSpdtLtFAEe32/Win8+lFAGliiiigBMfhSbTRRQAUmKKKACkoooANtJ3oooAMUm2iigBKNpoooAKTHFFFABtpNpFFFABjrSbaKKADbRtoooATHSjFFFACbfWjbRRQAmB2o2468cUUUAJto20UUABFJRRQAbaTbmiigBStJt9KKKAE20baKKADbRt9O9FFABt/Ok20UUAG3sKNtFFACbe9G3iiigA6UbaKKADaO1BWiigA20baKKADb26Gk2+lFFAC7aTbRRQAbaNv50UUAG2jb2FFFABt9KNtFFACYFLtx9KKKADbnFJtoooAAvWjbRRQAbetG2iigA2ijbRRQAbaNtFFABto20UUAG3ijaaKKAE296UrRRQAbfzo20UUAJil20UUAIoo29qKKAF247cUm33oooANvGKCtFFAC7aTbRRQAuOKTbRRQABemaNv4UUUAG2jbxRRQAYzS7elFFACbe3ejHrRRQAbaMCiigBdtJt70UUALtpMUUUALto29qKKADb+FGDRRQAYpduMGiigBNtH40UUAG2jaO9FFABtpdtFFACbaXb+VFFABt/GjbRRQAbaNv4UUUAG2jFFFABtH4UbfWiigA2ilx3oooANtJtPpRRQAuPWgqKKKADbQFoooAGXGT0oxRRQAbeKNvpRRQAYwOaCp60UUAGKXb60UUAG3vRt6UUUAG3pSYoooAULml20UUAG2jb6d6KKADFBFFFAC7fajbRRQAm38aXbRRQAYHFG2iigBdtG2iigBNtLt/KiigBdtJtFFFABto20UUALto20UUAG2gDmiigA29OaXbRRQAm3NG2iigBdvtRRRQB//9k=)

Figure IO

Une image contenant vert, équipement électronique, intérieur

Description générée automatiquement

Figure Back view

# Thermal specification :

GPUs shouldn’t overheat.

Thermal and cooling solution should dissipate heat from the components when the system is operating at its maximum power specification. Cable management should be controlled

Hotspot should be controlled to stay in range of working temperature.

The thermal design for JBOG needs to satisfy the data center operational conditions as described below:

* Data centers may be located 6000 feet above sea level or higher
* Cold aisle temperatures in data centers will generally be between 18°C and 30°C
* Cold aisle pressure in data centers will be maintain between 0” H20 and 0.05” H2O.
* Thermal solutions should be considered in the worst conditions (0” and 0.05” H2O) with a single fan failure
* Humidity in most data center is between 20% and 90%

Except for the condition when one rotor in a fan module fails, the thermal solution should not be found with considering extra airflow from a data center cooling system.

# Environmental and Regulations

## Environmental Requirements

The JBOG shall meet the following environmental requirements:

• Gaseous Contamination: Severity Level G1 per ANSI/ISA 71.04-1985

• Ambient operating temperature range: -5°C to +45°C

• Operating and Storage relative humidity: 10% to 90% (non-condensing)

• Storage temperature range: -40°C to +70°C

• Transportation temperature range: -55°C to +85°C (short-term storage)

The full system shall meet the following environmental requirements:

• Gaseous Contamination: Severity Level G1 per ANSI/ISA 71.04-1985

• Ambient operating temperature range: -5°C to +35°C

• Operating and Storage relative humidity: 10% to 90% (non-condensing)

• Storage temperature range: -40°C to +70°C

• Transportation temperature range: -55°C to +85°C (short-term storage)

• Operating altitude with no de-ratings: 1000m (3300 feet)

System would be deployed into datacenter with following environment.

Site 1:

• Temperature: 65F to 85F

• Humidity: 30% to 85%

• Altitude: 1000m (3300 feet)

Site 2:

• Temperature: 65F to 85F

• Humidity: 30% to 85%

• Altitude: 300m (1000 feet)

## Vibration & Shock

The JBOG shall meet shock and vibration requirements according to the following IEC

specifications: IEC78-2-(\*) & IEC721-3-(\*) Standard & Levels; the testing requirements are

listed in Table 11-1. The JBOG shall exhibit fully compliance to the specification without any

electrical discontinuities during the vibration and shock tests. No physical damage or limitation

of functional capabilities (as defined in this specification) shall occur to the JBOG during the

non-operational vibration and shock tests.

|  |  |  |
| --- | --- | --- |
|  | **Operating** | **Non-operating** |
| **Vibration** | 0.5g acceleration, 1.5mm  amplitude, 5 to 500 Hz, 10  sweeps at 1 octave / minute per  each of the three axes (one  sweep is 5 to 500 to 5 Hz) | 1g acceleration, 3mm  amplitude, 5 to 500 Hz, 10  sweeps at 1 octave / minute per  each of the three axes (one  sweep is 5 to 500 to 5 Hz) |
| **Shock** | 6g, half-sine 11mS, 5 shocks per  each of the three axes | 12g, half-sine 11mS, 10 shocks  per each of the three axes |

## Regulations

The vendor must provide CB reports of the JBOG and tray in component level. These documents

are needed to have rack level CE. The sled should be compliant with RoHS and WEEE. The

JBOG PCB should have a UL 94V-0 certificate. The vendor should design an EMI panel kit and

pass FCC Class A.

# Labels and Markings

The JBOG shall include the following labels on the component side of the JBOG. The labels shall not be placed in a way that may cause them to disrupt the functionality or the air flow path of the JBOG.

|  |  |  |
| --- | --- | --- |
| **Description** | **Type** | **Barcode Required?** |
| MAC Address. One per network interface | Adhesive label | Yes |
| Vendor P/N, S/N, REV (Revision would increment for any  approved changes) | Adhesive label | Yes |
| Vendor Logo, Name & Country of Origin | Silkscreen | No |
| PCB Vendor Logo, Name | Silkscreen | No |
| Purchaser P/N | Adhesive label | Yes |
| Date Code (Industry Standard: WEEK / YEAR) | Adhesive label | Yes |
| RoHS Compliance | Silkscreen | No |
| WEEE symbol: The JBOG will have the crossed out  wheeled bin symbol to indicate that it will be taken back  by the Manufacturer for recycle at the end of its useful  life. This is defined in the European Union Directive  2002/96/EC of January 27, 2003 on Waste Electrical and  Electronic Equipment (WEEE) and any subsequent  amendments. | Silkscreen | No |
| CE Marking | Silkscreen | No |
| UL Marking | Silkscreen | No |
| Vendor Asset Tag | Adhesive label | Yes |

# Prescribed Materials

## Disallowed Components

The following components shall not be used in the design of the JBOG.

* Components disallowed by the European Union’s Restriction of Hazardous Substances

Directive (RoHS)

* Trimmers and/or Potentiometers
* Dip Switches (except for prototypes)

## Capacitors and Inductors

The following limitations shall be applied to the use of capacitors.

* Only Aluminum Organic Polymer Capacitors shall all be used they must be rated 105C
* All capacitors will have a predicted life of at least 50,000 hours at 45C inlet air

temperature, under worst conditions.

* Tantalum capacitor using manganese dioxide cathode is not allowed.
* SMT Ceramic Capacitors with case size > 1206 are not preferred. Size 1206 still allowed when installed far from PCB edge, and with a correct orientation that minimizes risks of cracks.
* X7R Ceramics material shall be used for SMT capacitors by default. COG or NP0 type should be used in critical portions of the design. X6S can be used in CPU Cage area. Evaluation of worst-case temperature of the location should be done before using X5R capacitors.
* Only SMT inductors may be used. The use of through-hole inductors is disallowed.

## Component De-rating

For inductors, capacitors and FETs, de-rating analysis should be based on at least 20% de-rating.

# Definition

In-Band: sending of control information within the same band or channel used for data. Does not allow access to firmware (BIOS or UEFI) setting, does not make possible to reinstall the operating system or boot the system remotely

Out-of-Band: use of management interfaces for managing servers. It allows remote reboot, shutdown, powering on, hardware sensor monitoring and installation of the operating system

CPLD: Complex Programmable Logic Device

BMC: Board Management Controller

SOA: Safe Operating Area

EVT: Engineering Validation Test

DVT: Design Validation Test

PVT: Production Validation Test