

Tenstorrent Galaxy™ Wormhole™ Server

User Guide
Revision 1.0



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Revision History

Revision	Release Date	Notes
0	May 30, 2025	Beta Release
0.1	Jun 9, 2025	Beta Release with Chris Gill comments incorporated
0.2	Aug 21, 2025	New images + power specs + EMC caution language
0.3	Sep 3, 2025	Updated voltage, added EMC, Safety, and Caution notices
0.4	Sep 3, 2025	Updated Canada safety logo, caution notices, Taiwan EMI statement and host processor GHz
0.5	Sep 9, 2025	Updated EMC and Safety sections to include countries that have no specific legal requirements.
0.6	Sep 16, 2025	Updated installation language, Ethernet cable specs and general cable cautions. Removed Taiwan and Japan from Regulations section
0.7	Sep 16, 2025	Updated images on page 8
0.8	Sep 26, 2025	Added generic Class A warning; added proper disposal warning. Added heat and airflow specs. Modified power supply language. Added new export notice. Updated Server rest instructions. Condensed ToC.
0.9	Nov 03, 2025	Updated Power section with caution to avoid using three PSUs. Updated hot swappable parts to include PSUs, fans and E1.S drives. Added Brazil radio safety warning. Revised "Warning" and "Danger" labels. Removed Compliance section with note to check docs.tenstorrent.com for most up to date info.
1.0	Nov 18, 2025	Added additional safety language based on UL Test Report and Procedure issued June 2, 2025

Introduction

The Tenstorrent Galaxy™ Wormhole™ Server is a high performance, 6U rack mounted server designed to handle the most demanding AI and HPC workloads. It is specially optimized to expedite AI training and inferencing, including natural language processing and supercomputing applications, delivering 2.4 TOPS per Watt efficiency with peak performance of 408 TOPS across all 32 Tensix processors during FP8 operations.

Tenstorrent Galaxy Wormhole Servers are designed to easily cluster and scale, with comparatively low power consumption and cooling requirements that reduce operational and maintenance costs. The Tenstorrent Galaxy features remote access and monitoring capabilities, enabling customers to access and control server data from anywhere at any time.

This User Guide describes the components and specifications of a single Server, as well as installation instructions and compliance information.



Important Safety Information

Notice: This is a Class A product designed for use in a commercial environment. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Warning: Changes or modifications to this Server not expressly approved by Tenstorrent may void the user's authority to operate this Server. Tenstorrent cannot accept responsibility for failure to satisfy any safety, EMC or regulatory requirements that result from a non-approved modification of the Server – this includes the fitting of non-Tenstorrent recommended cards, power cables, Ethernet cables, or any other hardware or software modification that may affect compliance.

To avoid both damage to the Server and personal injury, only use Tenstorrent approved hardware in conjunction with this Server.

Do not use this Server in a way that it was not designed to be used.

For detailed information on servicing and troubleshooting, please review the Tenstorrent Galaxy Wormhole Field Service Manual. Server maintenance and replacement of internal parts should only be performed by a skilled professional, due to the heat and hazardous moving parts presents inside the unit.

1. Hardware Setup and Site Requirements

1.1 Packaging and Weight

The server weighs 119kg (262 lbs) and chassis dimensions are 447mm x 266.7mm x 884mm.

The Tenstorrent Galaxy Wormhole™ Server package contains:

- 1x Tenstorrent Galaxy Wormhole™ Server
 - 4x power supply cords (3m IEC320-C20 3P 250V UL)
- 1x Static Rail kit
 - 4x M5x10 screws
- Tenstorrent Ethernet cables
 - TX-02001 rev 1 or rev 2
- Power cables specified by user at time of purchase

The Server contains a Class 1 Laser within the optical transceiver module. The laser is self-contained. If a replacement is required, only use a certified optical fiber transceiver Class 1 Laser product.



Warning: Only use cables in conjunction with this Server that are recommended by Tenstorrent. Any replacement cables must be of the same type and wire gage as the original cables shipped with the Server. Using alternative cables not approved by Tenstorrent may result in device damage, dangerous operating conditions, or non-compliant operation.

1.2 Installation Equipment and Requirements

The Server should be installed by a trained, qualified professional in a restricted access area. Professional installation ensures the Server operates safely and effectively while preventing property damage and personal injuries. The professional installer assumes all responsibility for compliance with local regulatory and safety requirements during installation.

Ensure you have the following equipment on hand before beginning installation:

- A standard pallet jack, skid steer, or pump truck
- Server Lift
- Phillips head screwdriver

Due to the heavy weight of the Server (262 lbs), use of a Server Lift is required. We strongly recommend installation is done with at least two people present. This is to protect against injury and Server damage.

1.2.1 Rack Specifications

The Tenstorrent Galaxy Server is intended to be installed on an EIA-compliant 19" (482.6mm) rack. Any other racking solution requirements should be discussed with Tenstorrent ahead of time.

1.3 Power Requirements and Recommendations

The Server's internal AC/DC power supply is comprised of four 4000-watt 80 Plus Titanium hot-plug Power Supply Units (PSUs), each with a 54Vdc regulated main output (V1) over 70A and 12Vdc auxiliary standby output (Vsb) at 3A. The PSU cables must be plugged into grounded socket-outlets.

The four PSUs work in a 3+1 redundant configuration, and the expected peak power consumption of the Server is 12kW.

Each of the four provided power cords are three meters in length.

1.4 Temperature and Humidity

Ideal server operation conditions:

- Operating temperature: 5°C to 35°C (41°F to 95°F) dry-bulb
- Operating relative humidity: 20% to 85%
- Storage temperature: -40°C to 70°C (-40°F to 158°F) dry-bulb
- Storage relative humidity: 10% to 95%
- **Heat output:** 34,633 BTU/hr @ 35'C amb under a typical strenuous workload
- **Airflow requirement:** 1229 CFM @ 80% fan PWM under a typical strenuous workload

1.5 Connectivity

The Server can be operated in either a grid (no cables) or torus topology.

Torusing provides the benefit of decreased latency (by decreasing the hop count between chips) and is recommended for high performance operations. However, it is not required to operate the Server in a torus.

Both grid and torus topologies can be expanded to multiple systems using different cabling techniques. Please reach out to your Tenstorrent rep to discuss the best topology for your specific workload(s).

1.5.1 Ethernet Connectivity

The following diagram is of the Ethernet cable routing present in a single Tenstorrent Galaxy Wormhole Server, in its default 2D torus topology. Each Server comes with cables set in a recommended configuration but users may customize the cabling as needed. Supported maximum cable length is 2.5 meters for DAC and 30 meters for AOC.

For installations of multiple Tenstorrent Galaxy Wormhole Servers, multi-system cabling diagrams and examples can be provided. Please contact your Tenstorrent representative to plan such deployment ahead of ordering.

1.6 Networking

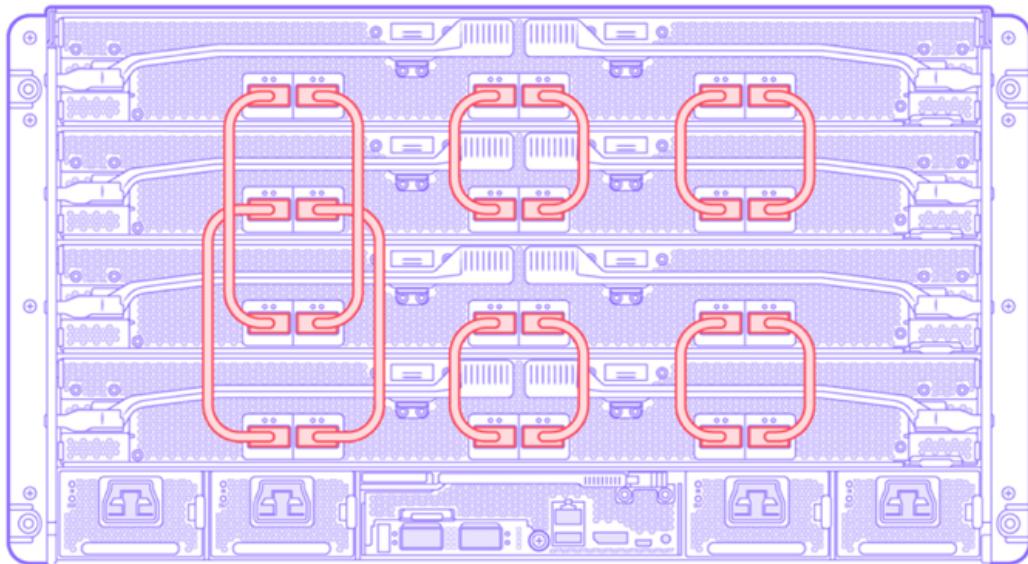


Figure 1
Diagram of Default Single Server Cable Routing

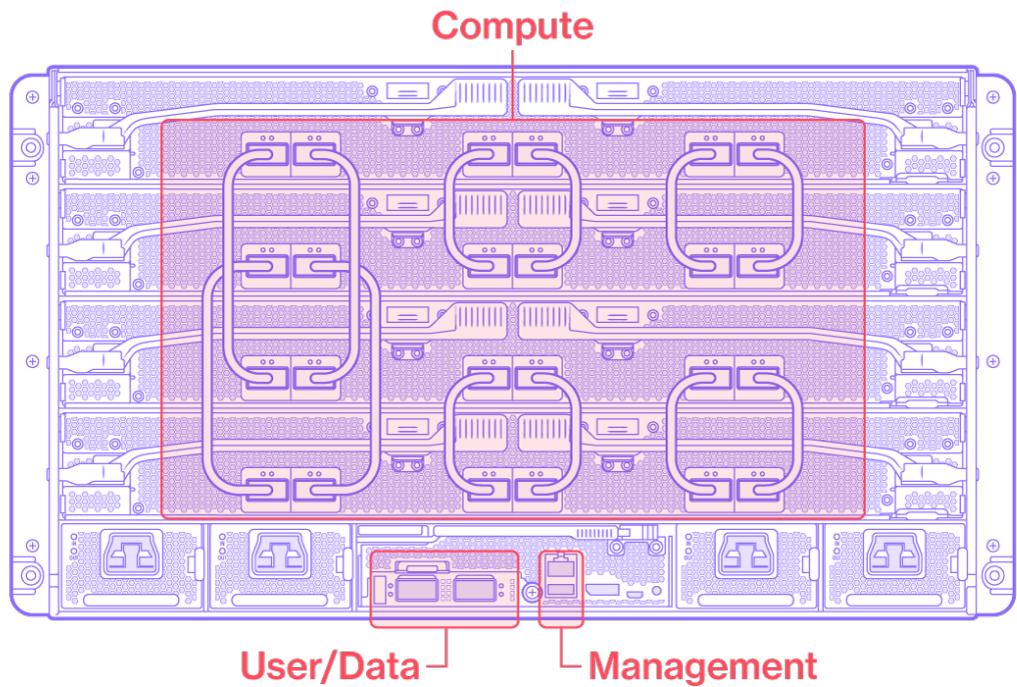


Figure 2
Highlight of Networking Areas

Management		User/Data	Compute
Description	Used to monitor and troubleshoot servers by IT infrastructure teams.	Links the cluster to the enterprise so users/data can get into the cluster.	Carries traffic across the TT-Fabric of chips for processing of data.
Speed	1 GbE	100 GbE Broadcom N2100G	400 Gbps
Links Per Galaxy	1x	2x	24x
Port Type	RJ-45	QSFP56	QSFP-DD
Switching	Standard Ethernet	High Speed Ethernet	None, handled by TT-Fabric

2. Specifications

2.1 Server Features and Specifications

Specification	Description
Model Number	TG-00002
Form Factor	GRU Rackmount (air-cooling)
Chassis Dimensions (W x H x D)	447mm x 266.7mm x 884.5mm (17.60" x 10.75" x 34.8")
Mainboard Form Factor (W x L)	147mm x 485mm
Tray Form Factor (W x L)	431mm x 600mm 4 Trays
AI Accelerator	32x Wormhole Tensix™ Processors (8 processors per tray across 4 trays) @ 170W each
Host Processor	AMD EPYC 9354P, 32 cores, up to 3.25 up to 3.8GHz, Socket SP5/LGA 6096, 280W TDP
Host Memory	576 GB (6x 96 GB) DDR5-4800 ECC RDIMM (6 slots, 0 free)
Internal PCIe Connectivity	4x trays with PCIe 4.0 (one x8 lanes, seven x1 lane)
Internal Connectivity	6x 400 Gbps QSFP-DD and 8x 56G PAM4 per tray
Networking	1x Dedicated 1GbE BMC management LAN port 1x OCP 3.0 NIC 2x 100/50/40/25/10 GbE QSFP-DD ports via Broadcom N2100G
Expandable Storage	4x hot-plug E1.S PCIe 4.0 9.5/15mm NVMe SSD drive bays
Storage	2x M.2 2280 NVMe PCIe 3.0/4.0 x4 Drive Slots (Populated with 2x 960 GB M.2 2280 NVMe drives) 4x Hot-Plug E1.S 9.5mm/15mm PCIe 4.0 x4 SSD Drive Bays (Populated with 4x 4 TB or 4x 8 TB E1.S drives)
BMC Storage	1x SD card slot with included 32 GB SD card
Front I/O	1x Power button/LED 1x Reset button 1x ID button/LED 1x System Status LED 1x Tray Status LED 2x USB 3.0 Type-A ports 1x Bezel connector
Rear I/O	1x DisplayPort 1.1a

	<p>1x USB 3.0 Type-A port (from CPU)</p> <p>1x COM port (USB Type-C, for debug use only; this is not a generic USB-C port, please see Rear I/O section for more details)</p> <p>1x Dedicated 1 GbE BMC LAN port</p>
Video	<p>ASPEED AST2600 with integrated 1 GB DDR4 video memory</p> <p>Maximum display resolution up to 1920x1200p 32bpp@60Hz</p>

Specification	Description
Fan	8x hot-swap 9276 dual rotor fans (N+1 redundant) - 54V 2x hot-swap 6056 dual rotor fans (N+1 redundant) - 12V
TPM	TPM 2.0 SPI module
ACPI	ACPI compliance, S0, S5 support
Power Supply	3+1 4000W 80 Plus Titanium redundant hot-plug PSUs. Peak consumption: 12kW operational, 16kW total PSU capacity.
System Rating	220-240Vac, 50/60Hz, 16A (x4) or 240Vdc, 16A (x4)
BMC	ASPEED AST2600 with 1x Dedicated 1GbE BMC management LAN port

2.2 Board Management Controller (BMC) Operation

The Board Management Controller (BMC) utilizes a single ASPEED AST2600 module with a dedicated 1GbE BMC LAN Port on the rear I/O. The BMC utilizes OpenBMC software.

2.2.1 First Time BMC Login

Please use the standard set of credentials set on the BMC:

username = root

password = OpenBMC

Connect the system via LAN and navigate to the system's IP address (<https://<bmc-ip-address>/>) to login.

Resetting the system can be done within `ipmitool` in the host OS.

2.2.2 BMC Specifications

Please note: BMC specifications are not finalized and are subject to change.

The BMC accurately reports the Server IP address. To monitor Wormhole Tensix Processor specifications like frequency, power, and firmware version, run `tt-smi` in the host OS.

The BMC console is in OpenBMC, located under Operations > KVM. Please see the screenshots in Figures 3 and 4.

The screenshot shows the BMC Overview page. On the left is a navigation sidebar with sections like Overview, Logs, Hardware status, Operations, Settings, Security and access, and Resource management. The main content area is titled "Overview". It includes a "System information" section with tabs for Server information, Firmware information, Network information, and Power information. Below that is a "Status information" section with Event logs and Inventory and LEDs.

Figure 3
Screenshot of BMC Overview Page

The screenshot shows the BMC Console page. The left sidebar has a "KVM" section selected. The main area is titled "KVM" and shows a KVM session to a server. The server's logo, "ami power manage secure", is displayed on the screen. At the top of the KVM window, it says "Status: Connected". There are also links to "Send Ctrl+Alt+Delete" and "Open in new tab".

Figure 4
Screenshot of BMC Console Page

2.3 System Information

To perform a system information read, see the TT-SMI README.md at

<https://github.com/tenstorrent/tt-smi/blob/main/README.md>

In the Tenstorrent TT-SMI GitHub repository, there are instructions for building from git, as well as usage, resets, disabling software versions, taking system snapshots, and more.

Once installed, to bring up the tt-smi GUI run `$ tt-smi`

This should bring up a display where a user can view device information, telemetry and firmware.

Running `$ tt-smi -help` brings up an updated menu of commands to view hardware information, resetting ASICs and specific trays, reading active chips, initiating resets, and more.

3. System Overview

3.1 System ISO View

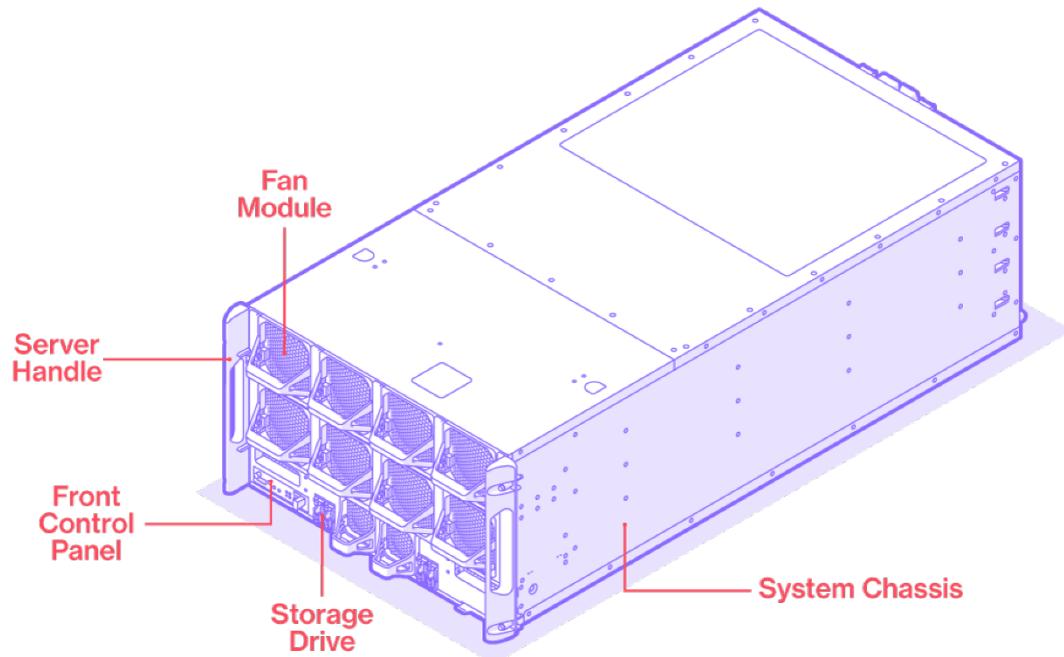


Figure 5
System Overview (with Bezel Removed)

No.	Item	Description
1	Storage drive	4x E1.S Storage
2	Fan	8+2 Fans for Trays and MB
3	Server handle	Two server handles used to pull the system out of the rack.
4	Front control panel	See the following page for more information.

3.2 System Front View

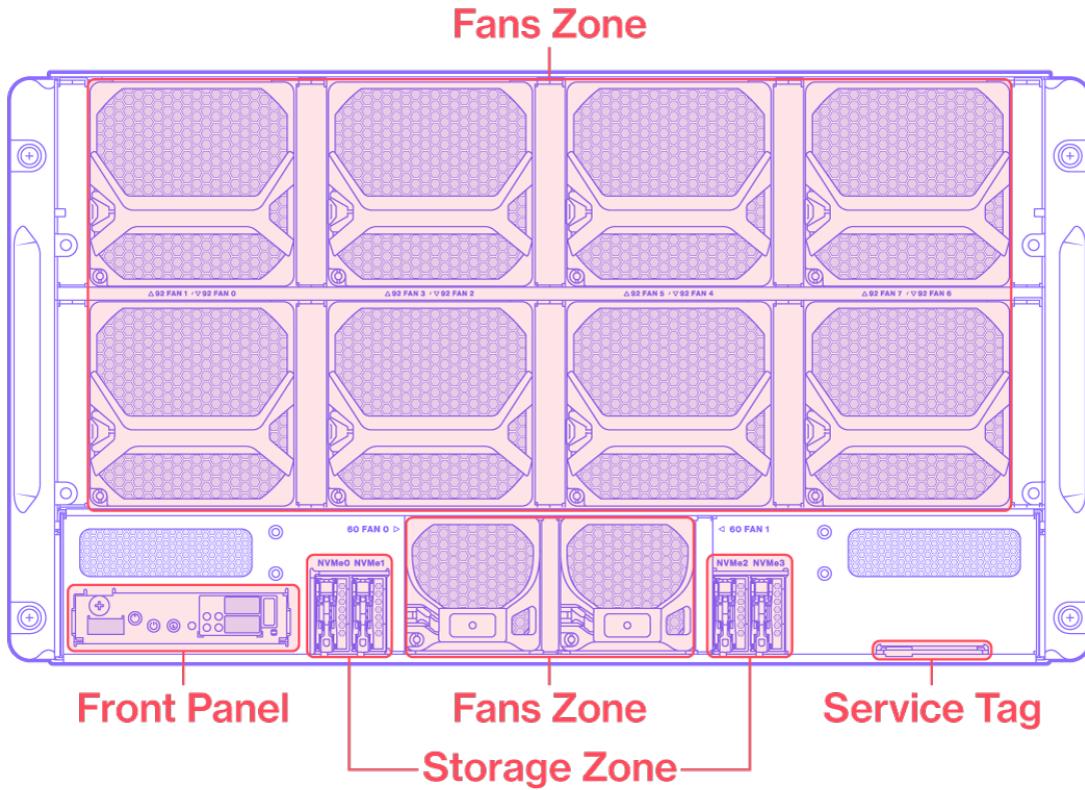


Figure 6
System Front View

Zone	Item	Description
Fan Zone	54V Fan	8x 9276 Fan for Tray TTP
Fan Zone	12V Fan	2x 6056 Fans MB CPU
Storage Zone	E1.S	4x E1.S NVMe storage device
Front control panel	Front control panel	See the following page for more information.
Service Tag	Service Tag	Location of serial number or other identifying information.

3.3 Storage Drive Overview

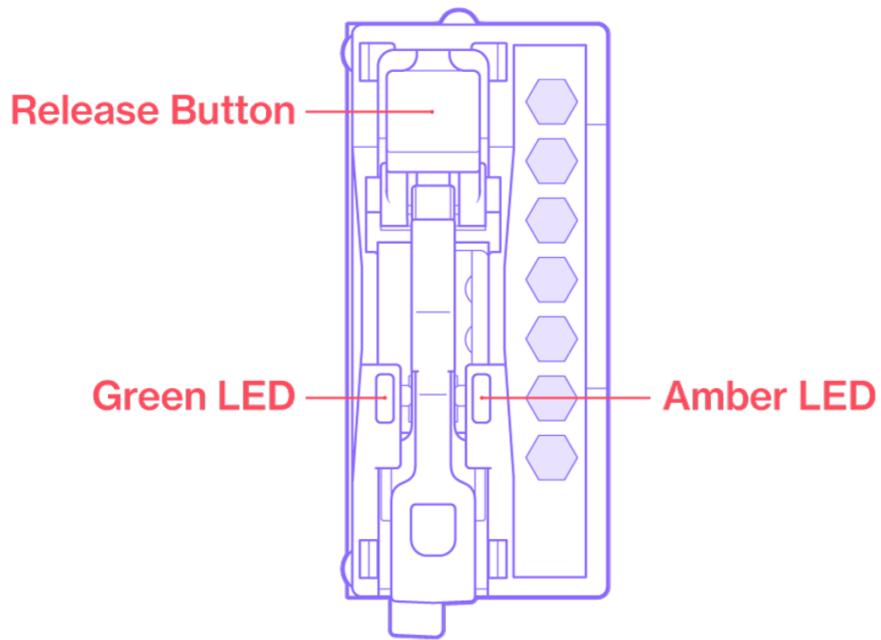


Figure 7
E1.S Overview

LED Color	State	Meaning
Green	Solid	Power is on; no issues.
Green	Blinking (4 Hz)	Host-initiated I/O activity is occurring.
Green	Off	Device is not receiving power.
Amber	Solid	Fail indicator; troubleshooting is needed.
Amber	Blinking (1 Hz)	Rebuild is needed.
Amber	Blinking (4 Hz)	Locator light for remote troubleshooting in data centers. A user can go through the BMC to tell the server to identify itself. The amber LED will then blink at 4hz.
Amber	Off	System is at normal.

3.4 Front Control Panel

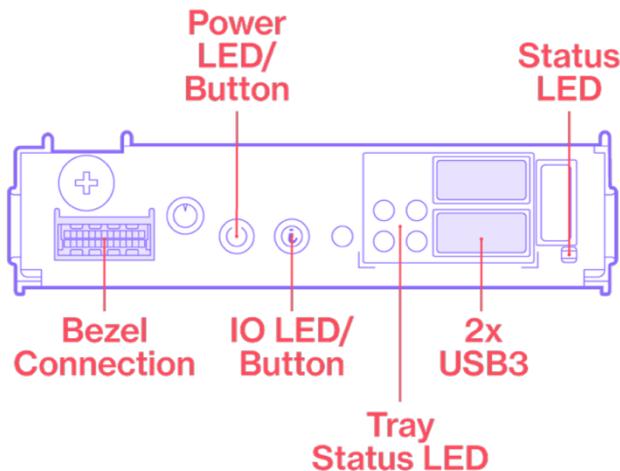


Figure 8
Front Control Panel

Name	Color	Behavior	Description
Power LED	Blue	On	System power is on.
		Off	System power is off.
		1Hz Blinking	Powering on - Phy-Initialization phase.
		4Hz Blinking	AC power on BMC boot phase - indicates that the BMC is not available.
ID LED	Blue	Off	Normal.
		Blinking	Unit is identifying itself as requested.
Status LED	Amber	Off	Normal.
		Blinking	Critical Event. Check cause in SEL log. Clear SEL log to return to normal.
Tray Status LED	Green/ Amber	Off	Tray not installed.
		Green	Normal, Tray Installed.
		Amber	Some Tensix Processors on the tray are not available.
Bezel Connector	n/a	n/a	Used to connect to the Bezel board, which is used for controlling the behavior of the Bezel LED.
Reset Button	n/a	n/a	System Reset.
2x USB 3.0 Type-A	n/a	n/a	USB 3.0 (5 Gbps) Type-A ports.

3.5 System Rear View

The system rear consists of one mainboard sled, four UBB tray sleds, and four power sockets.

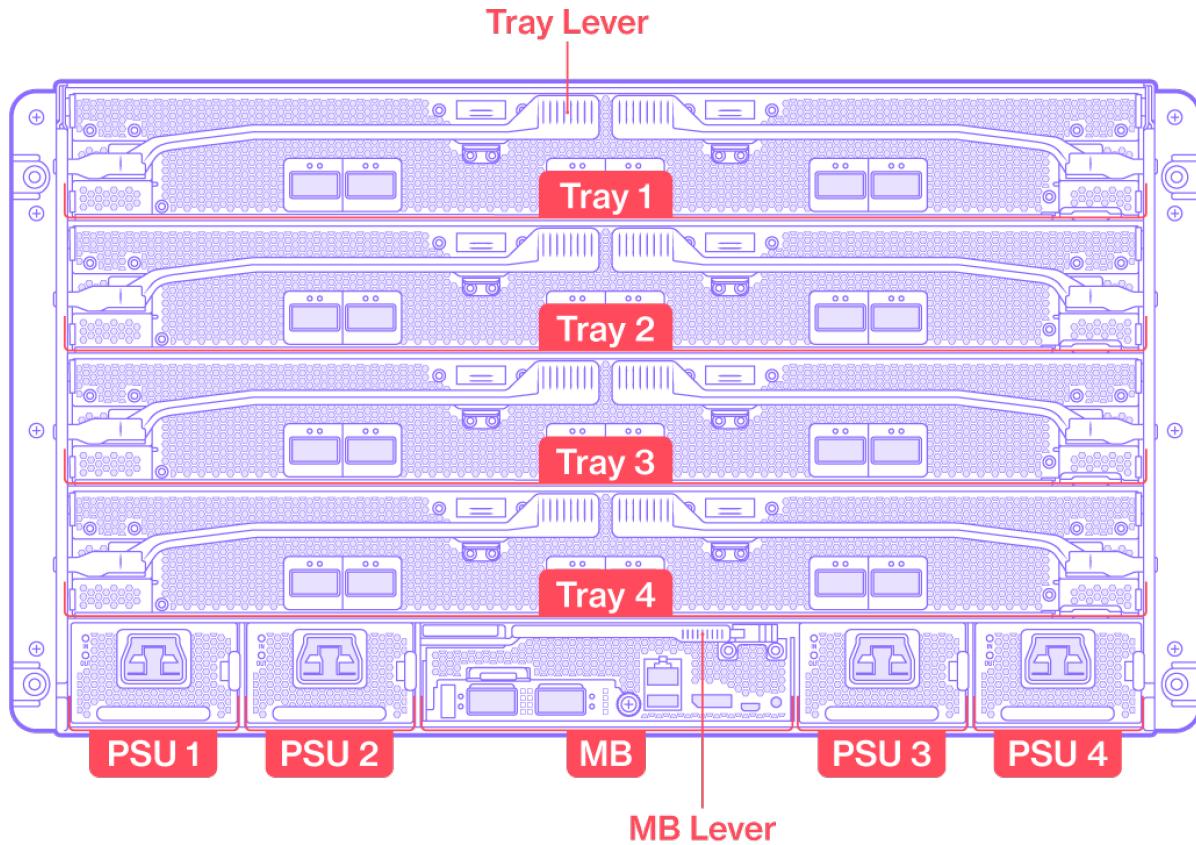


Figure 9
System Rear View

3.5.1 Rear I/O Ports

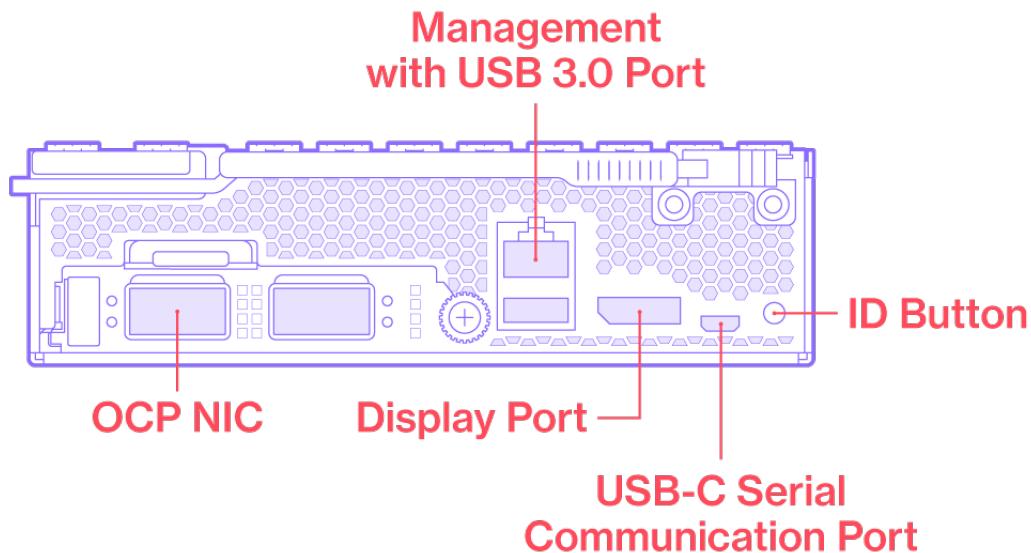


Figure 10
Rear I/O View

No.	Item	Description
1	OCP NIC	OCP 3.0 SFF PCIe 5.0 x16 slot.
2	Management with USB 3.0 port	Dedicated 1 GbE BMC LAN port (RJ45) for remote control/management. Connect to USB device (from CPU).
3	DisplayPort	Standard DisplayPort compatible, supporting up to 1920 x 1200 32bpp@60Hz resolution.
4	USB-C port	<u>To be used for serial communication between server, UART console and BMC only.</u> This port will show up as four independent serial ports on the system. It connects to both BMC (AST2600) & BIOS (AMD CPU) UART console. Please ensure console redirection is enabled in BIOS settings.
5	ID Button	Identification light

3.6 Power Block Diagram

The power delivery diagram below shows the power distribution from the PSU to the fan, MB, and TTP.

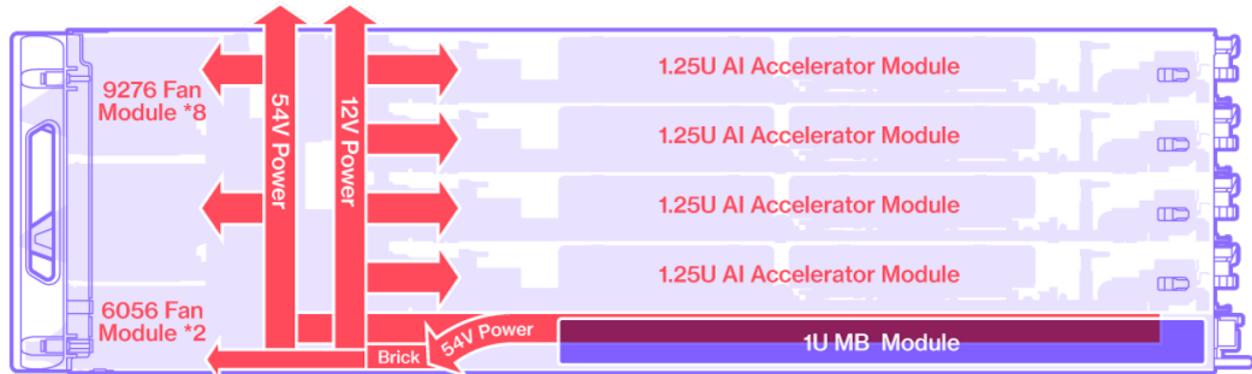


Figure 11
Power Block Diagram

4. Hardware Installation

4.1 Assembling the Rail Kit to Rack

The rail kit is designed to securely attach the Server to a standard width, 19" server rack.

The rail is retractable. Extend the rail to the rack post and snap the rail into place. Then, secure with the 4x M5 screws using a Phillips head screwdriver.

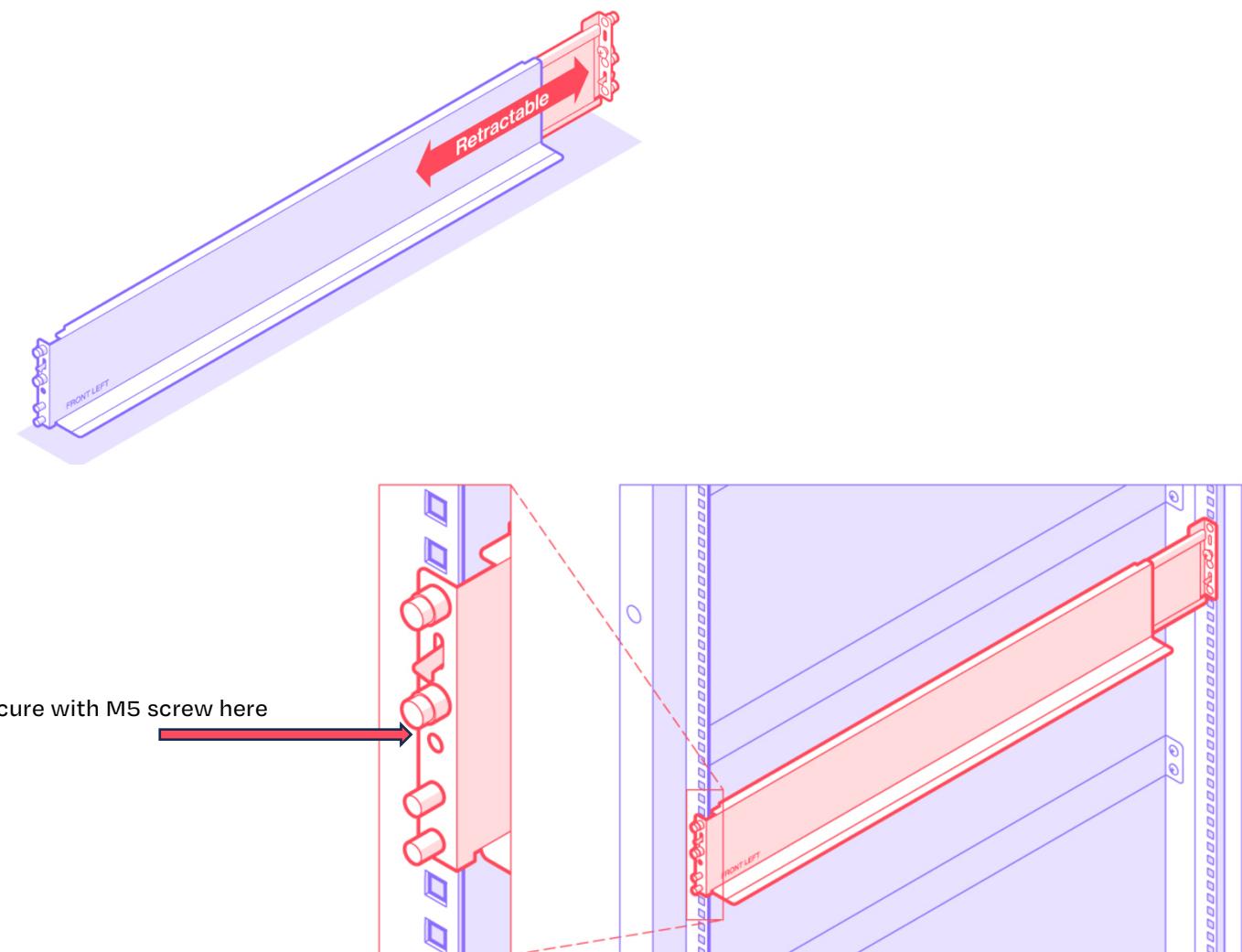


Figure 12
Illustration of Rack Assembly

4.2 Securing the Server to Rack

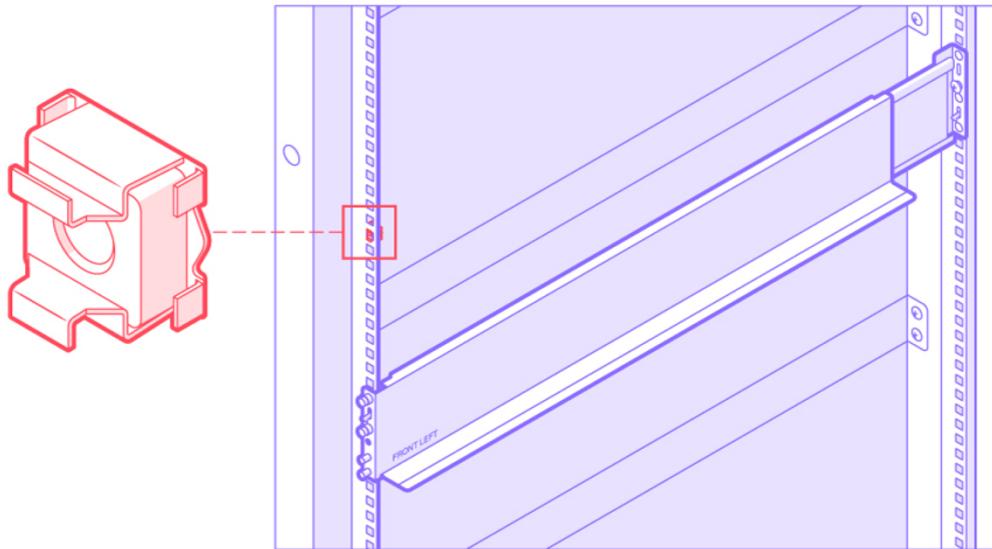


Figure 13
Rack Nut Placement

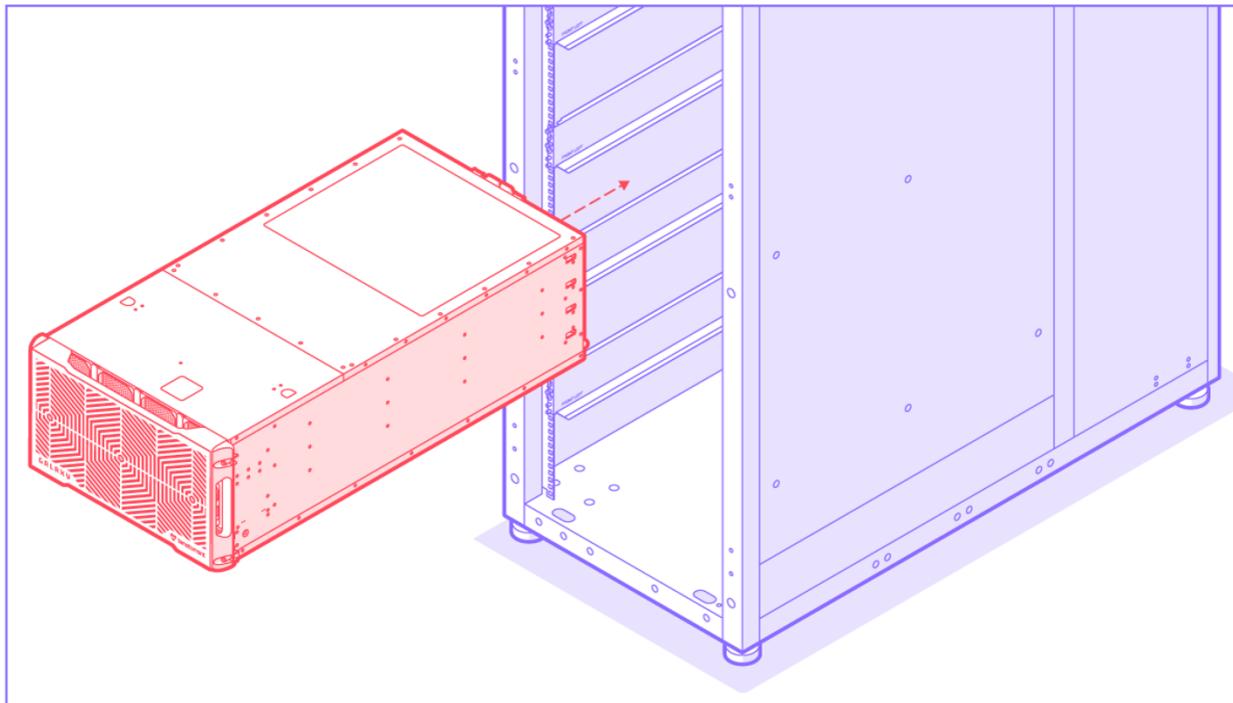


Figure 14
Slide Server into Rack
Caution: Server Weighs 262 lbs. To Avoid Injury or Damage, Use a Server Lift

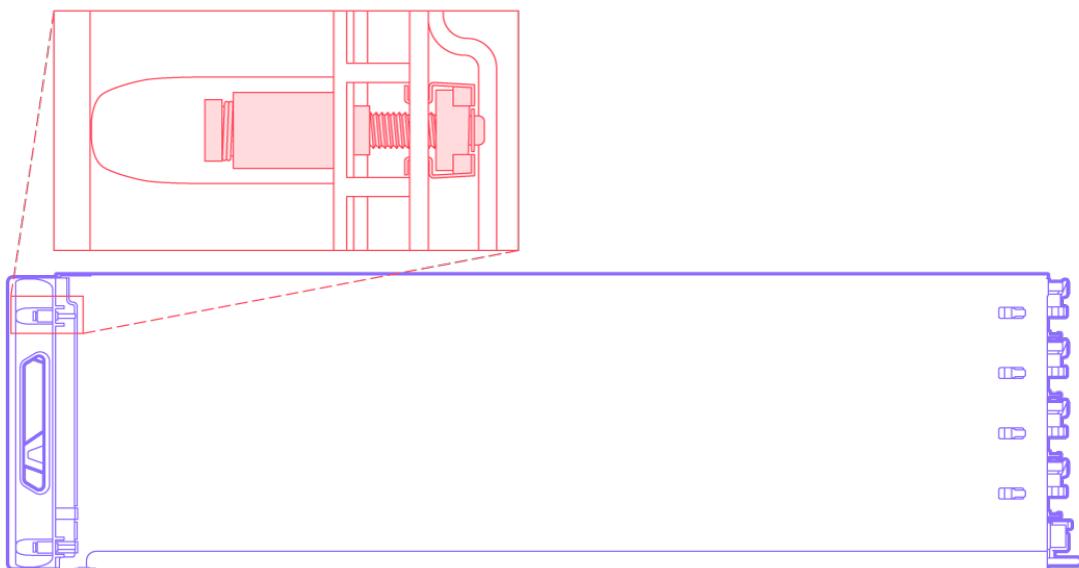


Figure 15
Interior View of Screws Securing Server to Rack

5. Software and Firmware

5.1 Software Installation

For full software setup instructions, please visit

https://github.com/tenstorrent/tt-metal/blob/main/docs/source/tech_reports/WH_Galaxy/Galaxy_WH_6U_SW_Guide.md

Tenstorrent provides a bash script, [tt-installer](#), for fast and easy setup of our software stack. The installer supports Ubuntu, Fedora, and Debian.

The TT-Metalium (<https://github.com/tenstorrent/tt-metal>) repository landing page on GitHub indicates models that can be run on Tenstorrent Galaxy systems and is frequently updated.

5.2 Firmware

For current firmware information, please visit:

<https://github.com/tenstorrent/tt-metal/blob/main/INSTALLING.md#2-install-driver--firmware>

Below shows the Server's major firmware sources and their functions:

- BIOS: AMI
- BMC: OpenBMC
- Tray FPGA:
 - TTP power-on sequence.
 - TTP GPIO control.
 - TTP JTAG MUX.
 - Buffering of TTP telemetry information.
 - Buffering of TTP voltage sensors.
 - Buffering of BCM87326 & BCM85361 temperature sensors.
 - Buffering of QSFP-DD temperature sensors.
 - QSFP-DD GPIO & reset sequence.
 - BCM87326 & BCM85361 MDIO MUX.
 - BCM87326 & BCM85361 parallel FLASH program.
- PDB FPGA:
 - PSU redundancy mechanism.
 - PSU over current warning detection.
 - FAN PWM controller and tach sensors.
 - SSD reset sequence.
 - SSD LED control.
- TTP JTAG MUX
- MB FPGA:

- CPU power-on sequence.
- BMC GPIO extension.
- CPU/TTP JTAG MUX

5.3 Troubleshooting

Software Troubleshooting Guide:

<https://docs.google.com/document/d/1VhEfYm66jRW4xBYiPmLMiXEOp95rmcPMf1pdIQzqKSg/edit?tab=t.0>

6. Server Reset

This information is subject to change. See GitHub link above for the latest information.

There are two options available for resetting WH galaxy 6u trays.

- `glx_reset`: resets the galaxy, informs users if there has been an eth failure
- `glx_reset_auto`: resets the galaxy upto 3 times if eth failures are detected
- `glx_reset_tray <tray_num>`: performs reset on one galaxy tray. Tray number must be between 1-4

Full galaxy reset:

```
tt-smi -glx_reset
Resetting WH Galaxy trays with reset command...
Executing command: sudo ipmitool raw 0x30 0x8B 0xF 0xFF 0x0 0xF
Waiting for 30 seconds: 30
Driver loaded
Re-initializing boards after reset....
Detected Chips: 32
Re-initialized 32 boards after reset. Exiting...
```

Tray reset:

```
tt-smi -glx_reset_tray 3 --no_reinit
Resetting WH Galaxy trays with reset command...
Executing command: sudo ipmitool raw 0x30 0x8B 0x4 0xFF 0x0 0xF
Waiting for 30 seconds: 30
Driver loaded
Re-initializing boards after reset....
Exiting after galaxy reset without re-initializing chips.
```

7. Server Shutdown

At this time, hot-swapping is not recommended for any components, except for the specified hot-plug fan, PSUs and E1.S drives. Tenstorrent will announce when hot-swapping functionality becomes available for other parts.



Caution: Shock hazard. Before any servicing or part replacement, the Server should be shut down, disconnected from power, and have all PSUs fully drained.

The Server can be shut down **Orderly** or **Immediately**.

An **Immediate** shut down from the BMC will cut off power to the head node without waiting for the OS to shutdown first. (In some cases, this can lead to file corruption. To avoid this, perform an **Orderly** shutdown whenever possible.)

- Login to the BMC.
- Navigate to the Power menu.
- Trigger "Power Off".
- Once the Server shuts down, unplug power cables.
- Wait a few minutes to allow each of the PSUs to fully drain.

Alternatively, running the command `shutdown -h now` from the terminal will perform an **Orderly** shutdown. You can schedule an orderly shutdown by specifying a time other than `now`.

The images on the following page show how to navigate to the Power shutdown section of the BMC.

1. Login to the BMC.

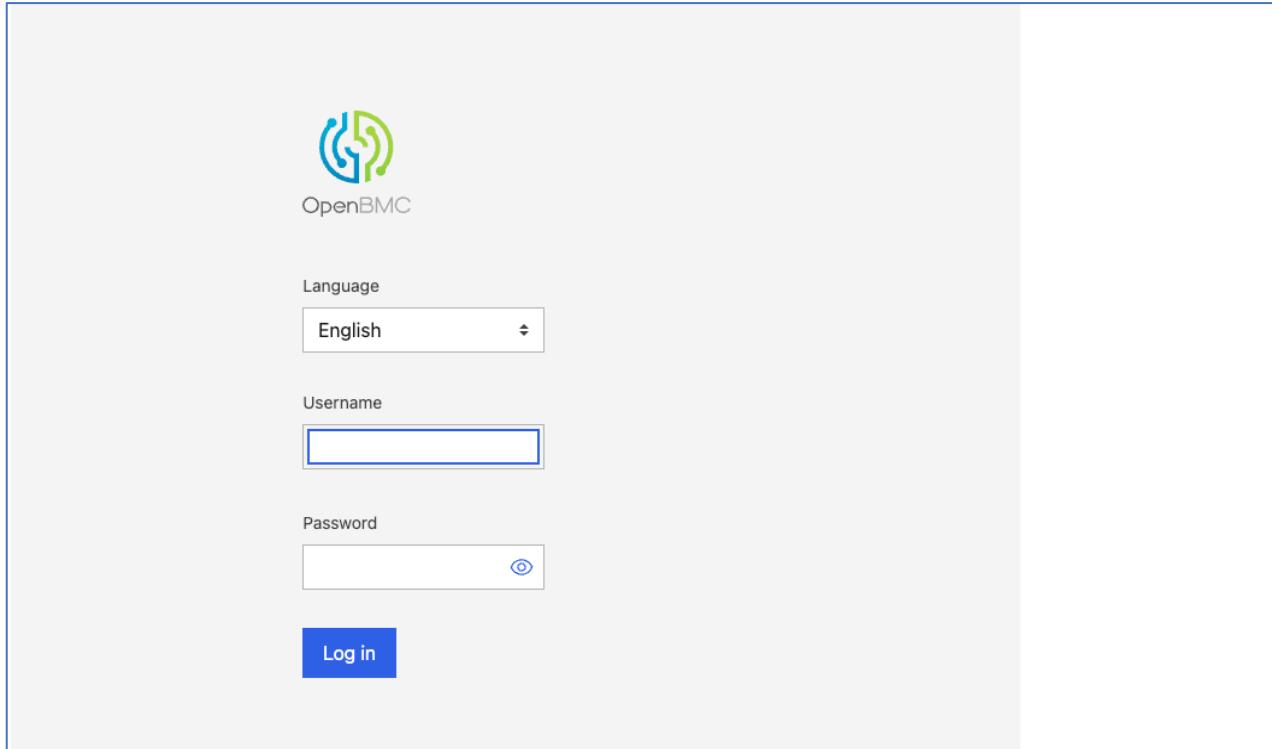


Figure 16
BMC Login Screen Screenshot

2. Navigate to the Power section of the BMC.

The screenshot shows the BMC Overview page. A purple circle highlights the 'Power' button in the top right corner of the header. Below the header, there's a 'Health' status indicator, a 'Power' button, a 'Refresh' button, and a 'root' dropdown menu. The main content area is divided into several sections: 'System information' (Server and Firmware), 'Network information', 'Power information', 'Status information' (Event logs and Inventory and LEDs), and a 'BMC date and time' box showing '2025-05-22 16:39:17 UTC'. A 'SOL console' button is also present. The left sidebar contains navigation links for Overview, Logs, Hardware status, Operations, Settings, Security and access, and Resource management.

Figure 17
Screenshot of BMC Overview with Power Section Highlighted

3. Select Preferred Shutdown Sequence.

Built on OpenBMC

Overview Logs Hardware status Operations Settings Security and access Resource management

Server power operations

Current status

Server status On
Last power operation 2025-05-16 00:09:15 UTC

Boot settings

Boot settings override: Hdd
 Enable one time boot
 TPM required policy: Enable to ensure the system only boots when the TPM is functional.
 Enabled

Operations

Reboot server
 Orderly - operating system shuts down, then server reboots
 Immediate - Server reboots without operating system shutting down; may cause data corruption

Shutdown server
 Orderly - operating system shuts down, then server shuts down
 Immediate - Server shuts down without operating system shutting down; may cause data corruption

Figure 18
Screenshot of Orderly Shutdown Option in BMC

4. Once the power is off, unplug the power cables and wait a few minutes for the PSUs to drain before beginning any hardware servicing.

8. Compliance

An updated list of EMC, Safety and Regulatory notices for the Tenstorrent Galaxy Wormhole Server is available at www.docs.tenstorrent.com, or by contacting Tenstorrent at regulatory@tenstorrent.com

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