



OPEN

Industry Standard, Flexible Architecture

GREEN

Less Heat, Less Power Consumption

STABLE

Robust Design, Quality Parts

Stable and
Reliable Solution

Server/Workstation

Motherboard

Paul

User Manual

English



Version 1.0

Published May 2022

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- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.

“Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate”

ASRock Rack's Website: www.ASRockRack.com

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If you need to contact ASRock Rack or want to know more about ASRock Rack, you're welcome to visit ASRock Rack's website at www.ASRockRack.com; or you may contact your dealer for further information.

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Contents

| | |
|--|-----------|
| Chapter 1 Introduction | 1 |
| 1.1 Features | 1 |
| 1.2 System Requirements | 1 |
| 1.3 Package Contents | 1 |
| 1.4 Specifications | 2 |
| 1.5 Motherboard Layout | 3 |
| 1.6 Onboard LED Indicators | 4 |
| 1.7 I/O Panel | 5 |
| Chapter 2 Installation | 6 |
| 2.1 Installing the IPMI Card | 6 |
| 2.2 Jumper Setup | 7 |
| 2.3 Onboard Headers and Connectors | 8 |
| Chapter 3 Connection | 11 |
| 3.1 Connections to MB for Power On/Off & Reboot Features | 11 |
| Chapter 4 Management Interface | 13 |
| 4.1 Web-based User Interface | 13 |
| 4.1.1 Logging in the Utility | 13 |
| 4.1.2 Using the Utility | 14 |
| 4.2 Dashboard | 15 |
| 4.3 Sensor | 16 |
| 4.4 FRU Information | 17 |
| 4.5 IPMI Event Log | 18 |
| 4.6 Setting | 19 |

| | | |
|-------|----------------------|----|
| 4.6.1 | Date & Time | 19 |
| 4.6.2 | KVM Mouse Setting | 20 |
| 4.6.3 | Services | 20 |
| 4.7 | Remote Control | 21 |
| 4.7.1 | Remote KVM Interface | 21 |
| 4.8 | Power Control | 22 |

Chapter 1 Introduction

Thank you for purchasing ASRock Rack **PAUL**, a reliable IPMI Card produced under ASRock Rack's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock Rack's commitment to quality and endurance.



If you require technical support related to this product, please visit our website for specific information about the model you are using.
<http://www.asrockrack.com/support/>

1.1 Features

- KVM Mouse
- LAN interface (supports RMCP+)
- Serial Over LAN
- Universal Series Bus(USB)
- IPMI Serial Interface
- Field Replaceable Unit (FRU)
- IPMI Sensor
- IPMI Event Log
- Power control
- FAN Control
- Remote Control
- iKVM
- ADC Device Support (Customizable)
- GPIO Device Support (Customizable)

1.2 System Requirements

Before you install the PAUL Card, please check if the client device meets the following requirements.

- Motherboard that supports PAUL Card
- LAN(RJ-45) port for server management
- Firefox (Windows and Linux), Chrome (Windows and Linux), Edge-Chromium Version (Windows)

1.3 Package Contents

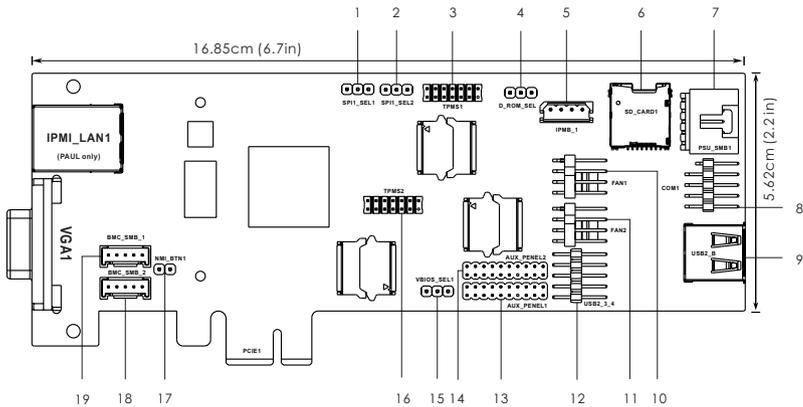
- ASRock Rack PAUL Motherboard
(Proprietary Form Factor: 6.7-in x 2.2-in, 16.85 cm x 5.62 cm)

1.4 Specifications

| PAUL | |
|---------------------|---|
| Type | Low-Profile PCIe IPMI Card |
| Chipset | ASPEED VIDEO PROCESSOR AST2500A2-GP |
| Onboard RAM | System: 384MB |
| Video | 1 (64MB) |
| Onboard ROM | 64MB |
| Interface | PCIe 3.0 x1 interface |
| VGA | 1 x D-sub support max. resolution 1920 x 1200 @ 60Hz |
| External connectors | 1 x D-sub 1 x USB 2.0 Port |
| Internal connectors | 2x SPI Selection Jumper (SPI1_SEL1 / SPI1_SEL2) 1x TPM Header (TPMS1) 1x ROM Selection Jumper (D_ROM_SEL) 1x Intelligent Platform Management Bus Header (IPMB_1) 1x SD Card Slot (SD_CARD1) 1x PSU SMBus (PSU_SMB1) 1x COM Port Header (COM1) 1x USB 2.0 Type-A Port (USB2_B) 2x System Fan Connector (FAN1 / FAN2) 1x USB 2.0 Header (USB2_3_4) 2x Auxiliary Panel Header (AUX_PANEL1 / AUX_PANEL2) 1x VBIOS Selection Jumper (VBIOS_SEL1) 1x TPM Header (TPMS2) 1x Non Maskable Interrupt Button (NMI_BTN1) 2x BMC SMBus Header (BMC_SMB_1 / BMC_SMB_2) |
| Watchdog | 32-bit Watchdog Timer |
| Main Features | Compatible and supports IPMI 2.0 and supports KVM Supports Web UI (Remote management) Supports Virtual media Supports Netwot Bonding |
| Operating System | Windows 10 -64bit Linux OS including Cent OS Redhat Ubuntu |
| Dimensions | 168.45 * 68.9 mm |

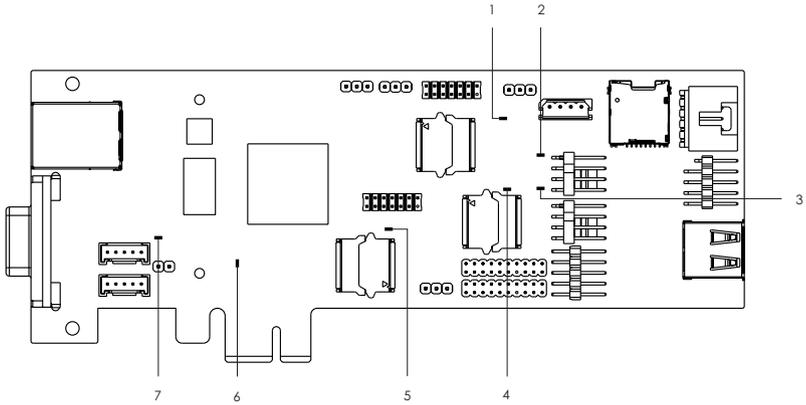
NOTE: Please refer to our website for the latest specifications.

1.5 Motherboard Layout



| No. | Description |
|-----|---|
| 1 | SPI Selection Jumper (SPI_SEL1) |
| 2 | SPI Selection Jumper (SPI_SEL2) |
| 3 | TPM Header (TPMS1) |
| 4 | ROM Selection Jumper (D_ROM_SEL) |
| 5 | Intelligent Platform Management Bus Header (IPMB_1) |
| 6 | SD Card Slot (SD_CARD1) |
| 7 | PSU SMBus (PSU_SMB1) |
| 8 | COM Port Header (COM1) |
| 9 | USB 2.0 Type-A Port (USB2_B) |
| 10 | System Fan Connector (FAN1) |
| 11 | System Fan Connector (FAN2) |
| 12 | USB 2.0 Header (USB2_3_4) |
| 13 | Auxiliary Panel Header (AUX_PANEL1) |
| 14 | Auxiliary Panel Header (AUX_PANEL2) |
| 15 | VBIOS Selection Jumper (VBIOS_SEL1) |
| 16 | TPM Header (TPMS2) |
| 17 | Non Maskable Interrupt Button (NMI_BTN1) |
| 18 | BMC SMBus Header (BMC_SMB_2) |
| 19 | BMC SMBus Header (BMC_SMB_1) |

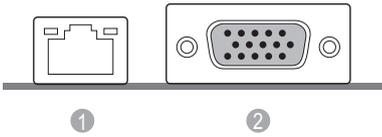
1.6 Onboard LED Indicators



| No. | LED | Status | Description |
|-----|----------------|--------|-------------------|
| 1 | BMC_B_LED1 | Yellow | Using BMC ROM2 |
| 2 | LAN1_LED | Red | FAN1 failed |
| 3 | FAN2_LED | Red | FAN2 failed |
| 4 | BMC_A_LED1 | Yellow | Using BMC ROM1 |
| 5 | BMC_LED1 | Green | BMC heartbeat LED |
| 6 | SYSTEM_ERR_LED | Red | STB PWR ready |
| 7 | SB_PWR1 | Green | SYSTEM error |

1.7 I/O Panel

Right Side



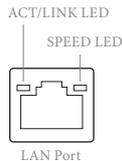
Left Side



| No. | Description | |
|-----|----------------------------|---|
| 1 | LAN RJ-45 Port (IPMI_LAN1) | Connect a LAN cable to this IPMI_LAN1 port for remote management feature. |
| 2 | VGA Port (VGA1) | Connect one end of the VGA cable to this VGA port and the other end to the monitor. |
| 3 | USB 2.0 Port (USB2_B) | Connect to an USB Type-A device. |

LAN Port LED Indications

*There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.



Dedicated IPMI LAN Port LED Indications

| Activity / Link LED | | Speed LED | |
|---------------------|---------------|-----------|--------------------------------|
| Status | Description | Status | Description |
| Off | No Link | Off | 100M bps connection or no link |
| Blinking | Data Activity | Green | 1G bps connection |
| On | Link | | |

Chapter 2 Installation

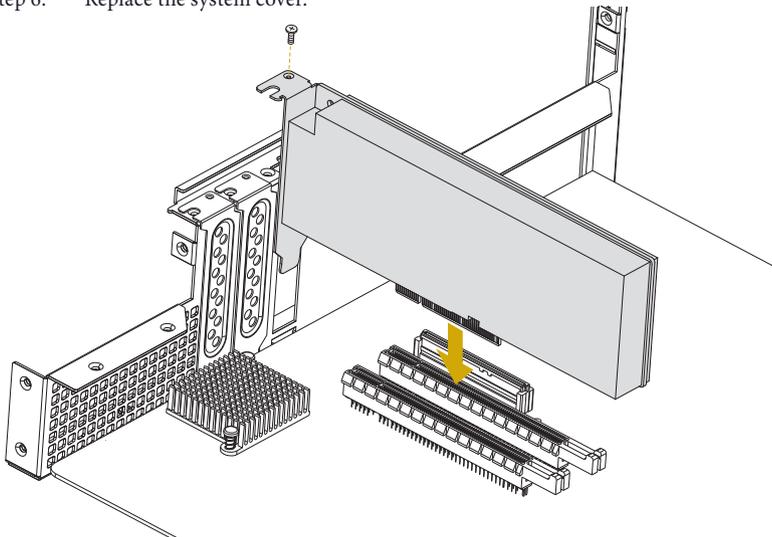
This is a Proprietary form factor (6.7-in x 2.2-in, 16.85 cm x 5.62 cm) IPMI Card. Before you install the IPMI Card, study the configuration of your chassis to ensure that the card is compatible with your system.



Make sure to unplug the power cord before installing or removing the IPMI card. Failure to do so may cause physical injuries to you and damages to IPMI card components.

2.1 Installing the IPMI Card

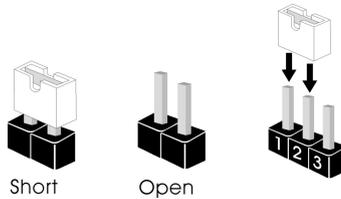
- Step 1. Before installing an expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.
- Step 2. Remove the system unit cover (if your motherboard is already installed in a chassis).
- Step 3. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.
- Step 4. Align the card connector with the slot and press firmly until the card is completely seated on the slot.
- Step 5. Fasten the card to the chassis with screws.
- Step 6. Replace the system cover.



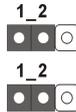
**Images shown are for illustrative purposes only and may differ depending on model.*

2.2 Jumper Setup

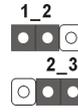
The illustration shows how jumpers are setup. When the jumper cap is placed on the pins, the jumper is “Short”. If no jumper cap is placed on the pins, the jumper is “Open”. The illustration shows a 3-pin jumper whose pin1 and pin2 are “Short” when a jumper cap is placed on these 2 pins.



SPI Selection Jumper
(3-pin SPI1_SEL1)
(see p.3, No. 1)
(3-pin SPI1_SEL2)
(see p.3, No. 2)

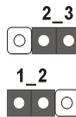


Disable SPI interface

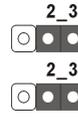


Enable SPI Master

SPI Selection Jumper
(3-pin SPI1_SEL1)
(see p.3, No. 1)
(3-pin SPI1_SEL2)
(see p.3, No. 2)



Reserved, enable SPI Master
and SPI Slave to AHB Bridge
(debug mode)



Enable SPI Pass-through
(Default)

ROM Selection Jumper
(3-pin D_ROM_SEL)
(see p.3, No. 4)



SPI_CON option:
SPI_CON1



SPI_CON option:
SPI_CON2

VBIOS Enable/Disable
Jumper
(3-pin VBIOS_SEL1)
(see p.3, No. 15)



No VGA BISO ROM;
VGA BIOS is merged in the
system BIOS (Default)



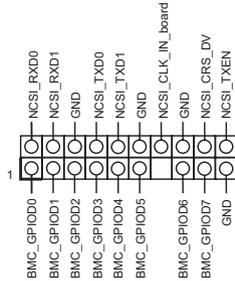
Enable dedicated VGA
BIOS ROM

2.3 Onboard Headers and Connectors



Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage to the motherboard.

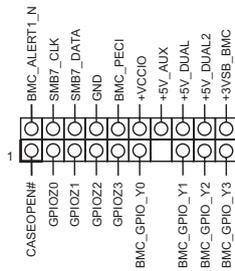
Auxiliary Panel Headers
(19-pin AUX_PANEL1)
(see p.3, No. 13)



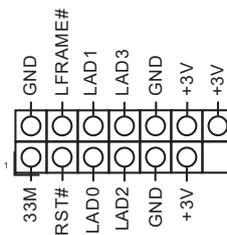
This header supports multiple functions on the front panel, including front panel SMB, internet status indicator.

Connect Pin 3 (GPIOID1) & Pin 7 (GPIOID3) to MB Power On/Off & Reset button. Connects BMC_GPIO from PAUL Card to the Motherboard.

(19-pin AUX_PANEL2)
(see p.3, No. 14)



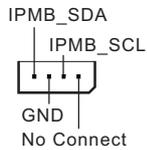
TPM Headers
(13-pin TPMS1) (LPC)
(see p.3, No. 3)



This connector supports Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.

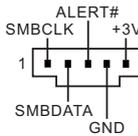
(13-pin TPMS2) (TPM Module)
(see p.3, No. 16)

Intelligent Platform
Management Bus Header
(4-pin IPMB_1)
(see p.3, No. 5)



This 4-pin connector is used to provide a cabled base-board or front panel connection for value added features and 3rd-party add-in cards, such as Emergency Management cards, that provide management features using the IPMB.

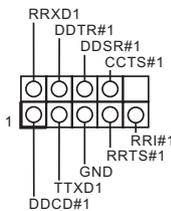
PSU SMBus Header
(PSU_SMB1)
(see p.3, No. 7)



PSU SMBus monitors the status of the power supply, fan and system temperature.

Connect a PMBus cable to this connector and to the power supply for PSU detection.

Serial Port Header
(9-pin COM1)
(see p.3, No. 8)



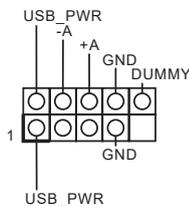
This COM header supports a serial port module.

USB 2.0 Connector
(USB2_B)
(see p.3, No. 9)



This card supports a Type-A USB 2.0 port.

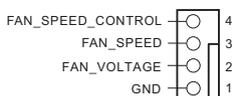
USB 2.0 Header
(9-pin USB2_3_4)
(see p.6, No. 12)



There is an USB 2.0 header on this IPMI card.

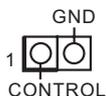
Connect USB 2.0 2*5P cable to the USB2.0 front header on the motherboard for data transfer and KVM keyboard/mouse remote control.

System Fan Connectors
(4-pin FAN1)
(see p.3, No. 10)
(4-pin FAN2)
(see p.3, No. 11)



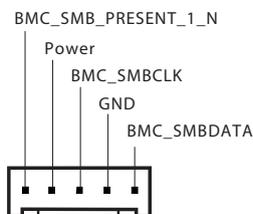
Please connect fan cables to the fan connector and match the black wire to the ground pin. All fans support Fan Control.

Non Maskable Interrupt
Button Header
(2-pin NMI_BTN1)
(see p.3, No. 17)



Please connect a NMI device to this header.

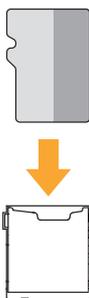
Baseboard Management
Controller SMBus Header
(5-pin BMC_SMB_1)
(see p.3, No. 19)
(5-pin BMC_SMB_2)
(see p.3, No. 18)



The header is used for the SMBUS devices.

Connect SMBus cables to these connectors and to the BMC headers on the motherboard for real-time sensor monitoring.

SD Card Slot
(SD_CARD1)
(see p.3, No. 6)



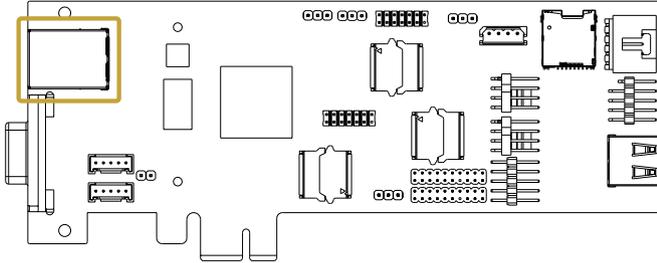
Use an inserted SD Card to read/write data.

Carefully insert the Micro SD Card into the slot until it clicks.

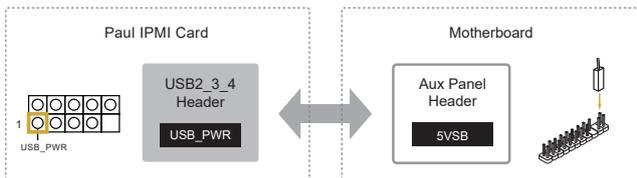
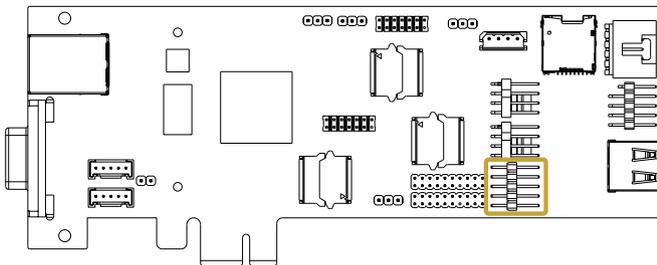
Chapter 3 Connection

3.1 Connections to MB for Power On/Off & Reboot Features

1. Please first make sure "IPMI_LAN1" on the Paul card is connected to an active network.

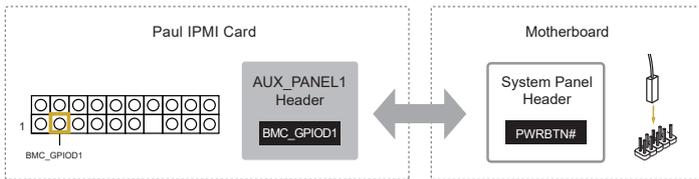
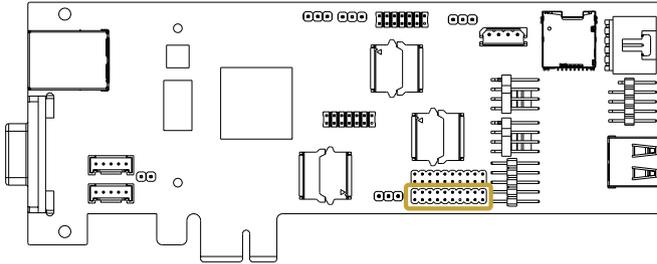


2. Connect "USB_PWR" pin to "5VSB" pin of the Aux/System Panel header on your motherboard.

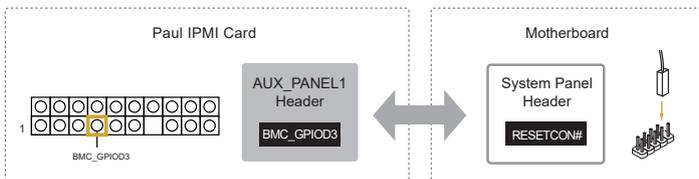
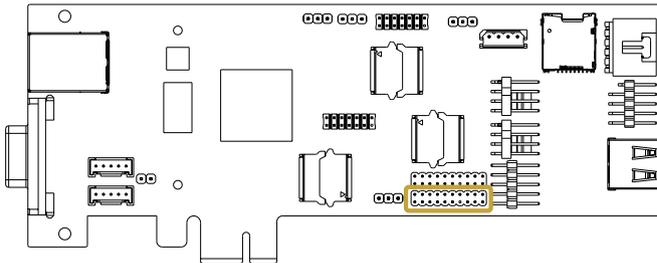


Please note that it is required to connect ALL PINS on the USB header to the Aux Panel header on the motherboard for complete functions of the remote KVM control; meanwhile, you are able to see the Remote KVM Interface shown in the section 4.7.1 (see page 21).

3. Connect "BMC_GPIOD1" pin to "PWRBTN#" pin of the System Panel on your motherboard.



4. Connect "BMC_GPIOD3" pin to "RESETCON#" pin of the System Panel on your motherboard.



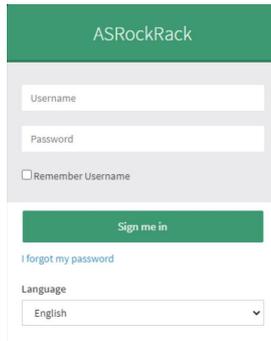
Chapter 4 Management Interface

4.1 Web-based User Interface

The web-based user interface allows you to easily monitor the client device's hardware information including temperatures, fan rotations, voltages, and power. By opening the GUI in a browser you can manage the client device remotely, even when there is no OS installed on the client device. This application also lets you instantly power on/off or reset the remote device.

4.1.1 Logging in the Utility

1. Open the web browser and type in the same IP address as the one in the remote device.
2. The below screen appears. If you are logging in for the first time, enter the default user name (admin) and password (admin). Then click Sign me in.

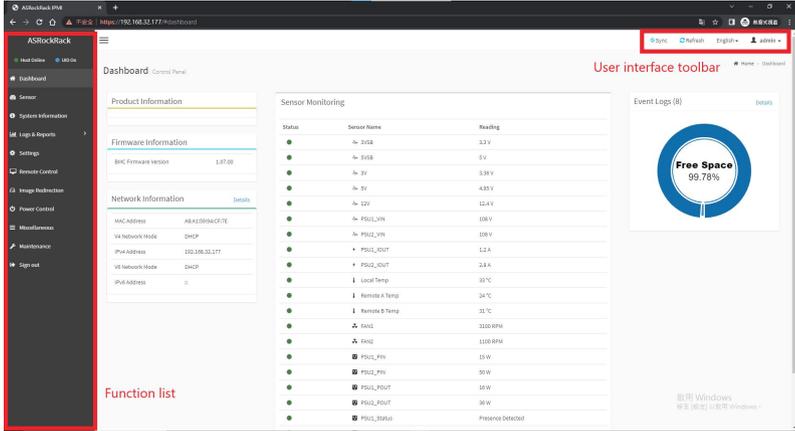


The screenshot shows the ASRockRack login page. At the top, there is a green header with the text "ASRockRack". Below the header, there is a light gray form area containing two input fields: "Username" and "Password". Below these fields is a checkbox labeled "Remember Username". A green button labeled "Sign me in" is positioned below the form. Underneath the button, there is a link that says "I forgot my password". At the bottom of the form area, there is a "Language" section with a dropdown menu currently set to "English".

3. You will be prompted to change your password after logging in for the first time. Please ensure that you change the password to a new password.
4. After updating the password, please log in again using the new password.

4.1.2 Using the Utility

The web-based graphics user interface displays when you login in the utility successfully. Click on a function from the list on the left hand side to start using its specific functions.



4.2 Dashboard

The dashboard gives you a quick overview of the system status, quick control options, poweron hours, power redundancy, sensors, messages, and logs. Click or hover your mouse over an item to see more details. Scroll down to view more items.

The screenshot displays the AlluaBoard WebUI Dashboard. The interface is organized into several sections:

- Product Information:** A section for identifying the hardware.
- Firmware Information:** Shows the current BIOS/Firmware version as 1.01.00.
- Network Information:** Lists MAC Address (AA:41:56:84:C7:7C), WAN Network Mode (DHCP), IPv4 Address (102.156.22.177), WAN Network Mode (DHCP), and IPv6 Address (empty).
- Sensor Monitoring:** A table providing real-time data on various sensors.

| Status | Sensor Name | Reading |
|--------|-----------------|--------------------|
| ● | ▲ 3VSB | 3.3V |
| ● | ▲ 5VSB | 5V |
| ● | ▲ 3V | 3.36V |
| ● | ▲ 3V | 4.85V |
| ● | ▲ 12V | 12.4V |
| ● | ▲ P5V1_VIN | 100V |
| ● | ▲ P5V2_VIN | 100V |
| ● | ▲ P5V1_VOUT | 1.2A |
| ● | ▲ P5V1_VOUT | 2.8A |
| ● | ▲ Local Temp | 35 °C |
| ● | ▲ Remote A Temp | 25 °C |
| ● | ▲ Remote B Temp | 35 °C |
| ● | ▲ FAN1 | 3100 RPM |
| ● | ▲ FAN2 | 1100 RPM |
| ● | ■ P5V1_PIN | 15 W |
| ● | ■ P5V1_PIN | 50 W |
| ● | ■ P5V1_PSVT | 38 W |
| ● | ■ P5V1_PSVT | 36 W |
| ● | ■ P5V1_Status | Presence Detected |
| ● | ■ P5V1_AC_Sense | No event assertion |
| ● | ■ P5V2_Status | Presence Detected |
| ● | ■ P5V2_V1_VOUT | No event assertion |
- Event Logs (8):** A section for viewing system events, featuring a circular gauge for Free Space at 99.78%.

4.3 Sensor

The Sensor Readings page displays live readings for all the available sensors with details like Sensor Name, Status, Current Reading and Behavior. This page will automatically refresh itself with data from the database. Please note that there may be some delay when retrieving live data. Scroll down to view more items.

The screenshot shows the ASRock Rack Sensor Readings page. The sidebar on the left contains navigation options: Home, Dashboard, Sensor, System Information, Logs & Reports, Settings, Remote Control, Image Redirection, Power Control, Miscellaneous, Maintenance, and Logout. The main content area is titled "Sensor" and shows "Live reading of all sensors". It is divided into three sections:

- Critical Sensors (0)**: A section with a green status indicator and the text "All threshold sensors are normal".
- Discrete Sensor States (4)**: A table with 4 rows showing sensor names and their states.
- Normal Sensors (18)**: A table with 18 rows showing sensor names and their current readings.

| Sensor Name | State |
|--------------|--------------------|
| PSU1_AC_Line | No event assertion |
| PSU1_Status | Presence Detected |
| PSU2_AC_Line | No event assertion |
| PSU2_Status | Presence Detected |

| Sensor Name | Reading |
|-------------|----------|
| In_12V | 12.4V |
| In_5V | 5.20V |
| In_3V3B | 3.3V |
| In_3V | 4.95V |
| In_3V3B | 5V |
| FAN1 | 3100 RPM |
| FAN2 | 1200 RPM |
| Local Temp | 33°C |

4.4 FRU Information

This Page displays the BMC's FRU (Field Replaceable Units) device information. The FRU page shows Basic Information, Chassis Information, Board Information and Product Information of the FRU device. Scroll down to view more items.

The screenshot shows the iBMC Web UI for 'ASTORStack'. The page title is 'FRU Information' with the subtitle 'Field Replaceable Units'. The left sidebar contains navigation items: Home, Dashboard, Sensor, System Information, Log & Reports, Settings, Remote Control, Image Restoration, Power Control, and Maintenance. The main content area is titled 'Available FRU Devices' and includes input fields for 'FRU Device ID' and 'FRU Device Name'. Below this, there are three columns of information:

- Chassis Information:**
 - Chassis information Area Format Version [Subject Object]
 - Chassis Type [Subject Object]
 - Chassis Part Number [Subject Object]
 - Chassis Serial Number [Subject Object]
 - Chassis Extra [Subject Object]
- Board Information:**
 - Board information Area Format Version [Subject Object]
 - Language [Subject Object]
 - Manufacture Date Time [Subject Object]
 - Board Manufacturer [Subject Object]
 - Board Product Name [Subject Object]
 - Board Serial Number [Subject Object]
 - Board Part Number [Subject Object]
 - PCU File ID [Subject Object]
 - Board Extra [Subject Object]
- Product Information:**
 - Product information Area Format Version [Subject Object]
 - Language [Subject Object]
 - Product Manufacturer [Subject Object]
 - Product Name [Subject Object]
 - Product Part Number [Subject Object]
 - Product Invoice [Subject Object]
 - Product Serial Number [Subject Object]
 - Asset Tag [Subject Object]
 - FRU File ID [Subject Object]
 - Product Extra [Subject Object]

4.5 IPMI Event Log

This page displays the list of events incurred by different sensors on this device. Click on a record to see the details of that entry. Hovering over the graph will allow you to view the number of events by date.

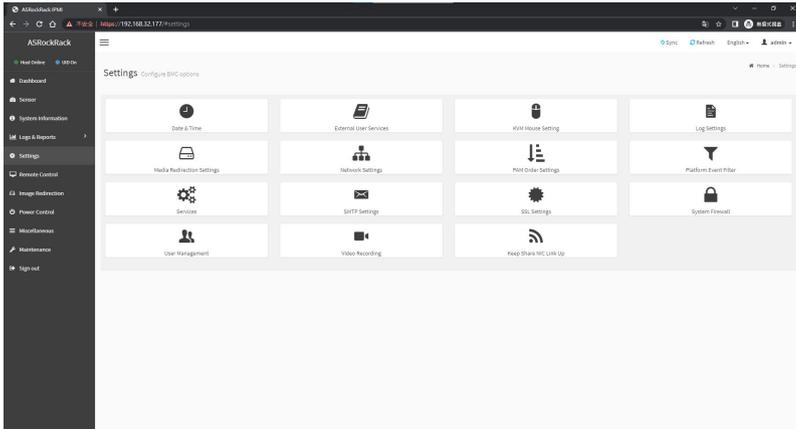
The screenshot shows the ASRock Rack IPMI Event Log interface. The page title is "IPMI Event Log" and the URL is "https://192.168.32.177/irspipmi/event-log". The interface includes a sidebar with navigation options: Dashboard, Sensor, System Information, Logs & Reports, IPMI Event Log, Settings, Remote Control, Image Redirection, Power Control, Monitoring, Maintenance, and Sign out. The main content area displays a table of events with the following columns: Event ID, Event Time, Sensor Name, Sensor Type, and Description. The table contains three entries:

| Event ID | Event Time | Sensor Name | Sensor Type | Description |
|----------|----------------------|-------------|--------------|-----------------------------|
| 4 | 10/24/2023, 10:22:23 | P5V2_Status | Power Supply | Presence Detected: Disabled |
| 3 | 10/24/2023, 10:22:20 | P5V2_Status | Power Supply | Presence Detected: Disabled |
| 2 | Present TimeStamp | P5V2_Status | Power Supply | Presence Detected: Assorted |
| 1 | Present TimeStamp | P5V2_Status | Power Supply | Presence Detected: Assorted |

At the bottom right of the interface, there are three buttons: "Refresh Event Log", "Download Event Log", and "Download Event Log File Data".

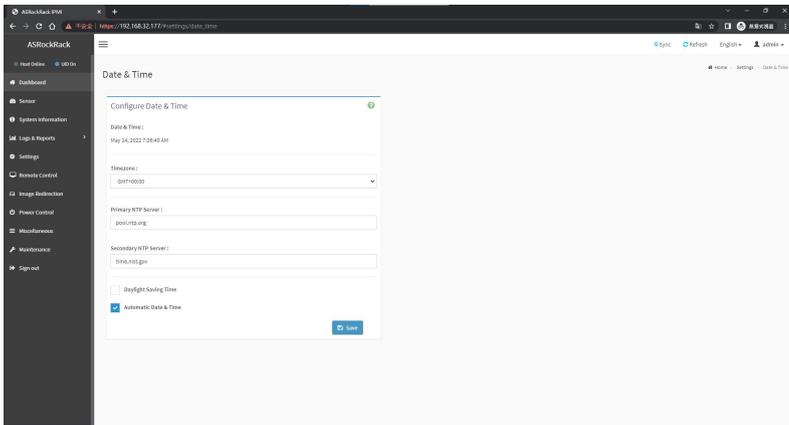
4.6 Setting

This page allows you to configure the BMC settings. Click on an item for more options.



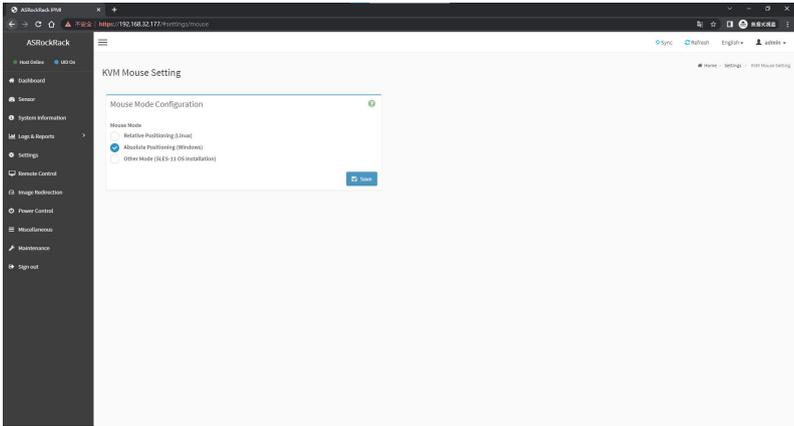
4.6.1 Date & Time

This page allows you to set the date and time on the BMC. You can either select a time zone from the interactive map, or manually set the date and time.



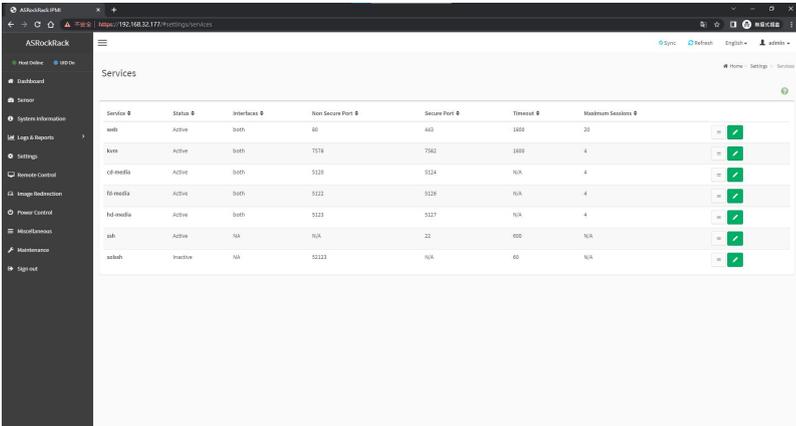
4.6.2 KVM Mouse Setting

This page allows you to set the mouse mode. The Redirection Console handles mouse emulation from local window to remote screen using either of the three methods. Only the Administrator has the permissions to configure this option.



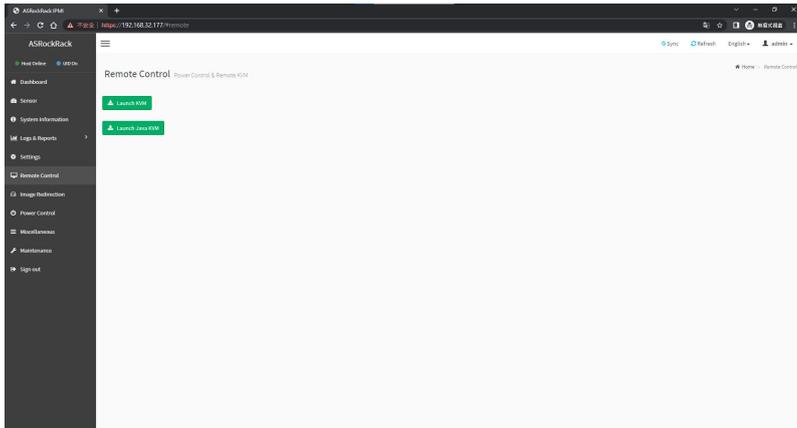
4.6.3 Services

This page lists services running on the BMC. It shows current status and other basic information about the services.



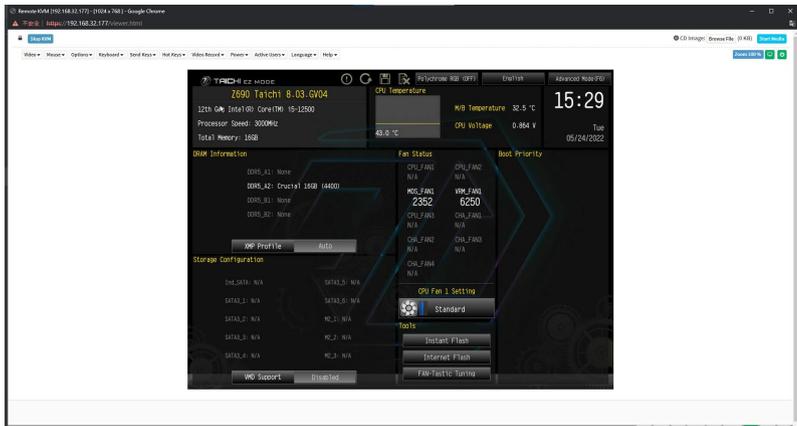
4.7 Remote Control

This menu allows you to perform remote operations on the server. Click Launch H5Viewer to start the remote KVM.



4.7.1 Remote KVM Interface

This page lists services running on the BMC. It shows current status and other basic information about the services.



4.8 Power Control

The Power Control displays the current server power status and allows you to change the current settings. Select the desired option, and then click Perform Action to execute the selected action.

