

Gigabyte Management Console User's Guide

(For ASPEED AST 2400 Chipset)

Version: 1.5

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Using Your Gigabyte Management Console

The Gigabyte Management Console has a user-friendly Graphics User Interface (GUI) called the Gigabyte Management Console GUI. It is designed to be easy to use. It has a low learning curve because it uses a standard Internet browser. You can expect to be up and running in less than five minutes. This chapter allows you to become familiar with the Gigabyte Management Console GUI's various functions. Each function is described in detail.



Gigabyte Management Console Key Features and Functions

- Support IPMI v2.0
- Out-of-band monitoring and control for server management over LAN.
- FRU information report includes main board part number, product name, and manufacturer, etc.)
- Health status/Hardware monitoring report.
- Events log, view, and clear.
- Event notification via PET (Platform Event Trap).
- Platform Event Filtering (PEF) to take selected action for selected events.
- Chassis management includes power control and status report, front panel buttons and LEDs control.
- Support multi-session user, and alert destination for LAN channel.

Software Install

Prerequisites on remote management PC

Before installing Java tool, please check your system for the following required configuration requirements:

- Supported Browsers:
 - Internet Explorer 8~12
 - Google chrome Version 29.0.1547.66m
 - Firefox 2.0
- JAVA Recommended Version 8 Update 25 or later version (file size: ~ 623KB)

Install Java Tool

Please follow the instruction to install Java in Windows operating system.

1. Go to <http://www.java.com>
2. Click Download on the middle of the home page.
3. Click on Agree and Start Free Download
4. Click see all Java downloads
5. Select the operating system you are using.
6. Choose the folder location. (Save the file to a known location on your computer)
7. Click Save.
8. Click Yes to replace.
9. Verify that the
 - Name of the file is **JavaSetup8u25.exe**
 - Size is approximately 623KB.
10. Close all applications including the browser.
11. Double-click on the saved file icon to start the installation process.

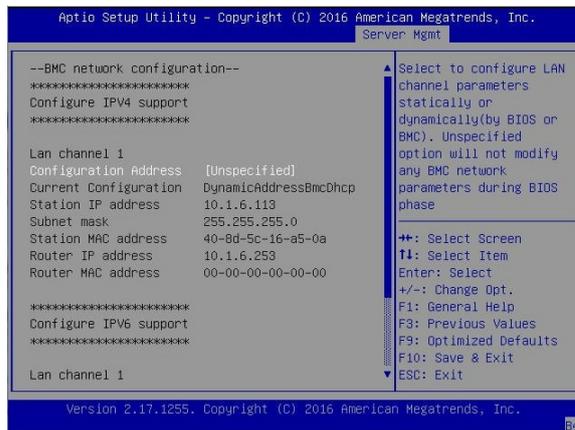
Gigabyte Management Console Network Configuration

Please follow the instruction to enable the console redirection function.

1. You can gather the IP address on the POST scr



2. Or, Go to BIOS setup menu.
3. Select **Server Management**.
4. Select **BMC network Configuration**
5. Define Configuration Address source to **DynamicBmcDhcp** or **Static**.
6. Save and Exit.
7. The **BMC IP Address** will appear on the **IPv4 Address** parameter.



8. Save the configuration and exit BIOS setup menu.

Using the Web UI

The BMC firmware features an embedded web server, enabling users to connect to the BMC using an Internet browser (Microsoft® Internet Explorer™).

The web server shall support 4 concurrent connections

Web-based GUI is supported on the following browsers:

Microsoft Windows:

- Internet Explorer 8 ~ 12
- Mozilla® Firefox® 2.0 or later

Linux:

Mozilla Firefox 2.0 or later

Gigabyte Management Console Overview



The image shows a login dialog box with a light blue background. At the top left, it says "Logon to:" in blue text. Below that, there are two input fields: "Username:" and "Password:". Each field has a white text box with a small cursor. At the bottom of the dialog, there are two buttons: "OK" and "Cancel", both in blue with white text.

1. Open a web browser and type in your identified IP. The IP address can be found using your DHCP server.
2. A dialog box prompts you to enter Username and Password.
3. Enter the following values:
Username: **admin**
Password: **password**



When you log in using the root user name and password, you have full administrative powers. It is advised that once you log in, you change the root password.

Enter Gigabyte Management Console

After you successfully log into your Gigabyte Management Console, the Remote Management Console GUI appears.

Properties

Properties displays the firmware version of current remote client system.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™

Welcome admin (Administrator) !
Thu May 19 2016 3:10:34 (UTC+0000)

- ▣ MergePoint® EMS
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 - Configuration
 - ▣ Hardware
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 - System NIC

Properties

[Refresh](#)

Platform Information

Manufacturer	GIGABYTE
Product Name	R270-T61
BIOS Version	T05
BIOS Release Date	05/16/2016

Firmware Information

Product Name	MergePoint EMS
Product Information	MergePoint Embedded Management Software
Firmware Version	7.61
Firmware Updated	12 Apr 2016, 03:30:34 (UTC+0000)
ASIC Type	ast2400

CPLD Information

MB CPLD Version	R06
BPB CPLD Version	R02

Configuration

Network

You can view and modify the network settings on this screen. Select the Network **Mode** from the drop-down list.

1. Dedicate Mode

When set to Dedicate Mode, you can configure the BMC related settings through the BMC port.

2. Shared Mode

When set to Shared Mode, you can configure the BMC related settings through the NIC2 port. (Shared NIC Mode)

3. Failover Mode

When set to Failover Mode, you can configure the BMC related settings through the BMC or NIC2 port. (Backup Mode)

When you finish configuration, click **Apply Change**.

Please note that the changes may not take effect immediately, click "Refresh" to take effect of changes.

The screenshot displays the 'Network' configuration page in the GIGABYTE Embedded Management Software. The page includes a sidebar with navigation options, a main content area with 'Network' settings, and a table for 'Network Interface Configuration'.

Network

Apply Changes Refresh

General Settings

To change the Network settings may change IP address settings.
Each change to settings may cause a loss in connectivity and the termination of all sessions.
Changes may not take effect immediately.

Mode: [v]
Host Name: GIGABYTE-01234567890123456789A
DNS Domain Name: gigabyte.int.a
Global DNS: Enabled Disabled
Global Dynamic DNS: Enabled Disabled By Interface

Network Interface Configuration

Name	iF Enabled	IPv4 Enabled	IPv4 Address	IPv6 Enabled	IPv6 Address
eth1	Enabled	Enabled	10.1.111.91	Enabled	:::0

Network Security

You can configure the network security settings on this screen. Check the **IP Blocking Enabled** box and input the desire value of **IP Blocking Fail Count**, **IP Blocking Fail Window**, and **IP Blocking Penalty Time**. After you finish the configuration, click **Apply Change** to save the settings.

The screenshot shows the 'Network Security' configuration page in the GIGABYTE Embedded Management Software. The page has a blue header with the GIGABYTE logo and navigation links. A left sidebar contains a tree view of configuration options. The main content area is titled 'Network Security' and includes an 'Apply Changes' button. Below the title, there is a table for configuring network security settings.

Setting	Value	Unit
IP Blocking Enabled	<input type="checkbox"/>	
IP Blocking Fail Count	5	
IP Blocking Fail Window	60	Seconds
IP Blocking Penalty Time	300	Seconds

Security

The Security page shows the current certificate status.

To generate a new certificate, click **Generate Certificate**.

To upload a certificate, click **Upload Certificate**.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:14:12 (UTC+0000)

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Security

[Generate Certificate](#) [Upload Certificate](#)

Current Certificate:

```
Serial Number          : BC718D81036B2728

Subject Information:
Country Code (CC)     : US
State (S)              : FL
Locality (L)          : Sunrise
Organization (O)       : Avocent
Organizational Unit (OU) : AESS
Common Name (CN)      : avocent.com

Issuer Information:
Country Code (CC)     : US
State (S)              : FL
Locality (L)          : Sunrise
Organization (O)       : Avocent
Organizational Unit (OU) : AESS
Common Name (CN)      : avocent.com

Valid From             : 17 Dec 2013, 13:22:27 (UTC+0000)
Valid To               : 06 Oct 2016, 13:22:27 (UTC+0000)
```

Users

To configure a specific user, click the Users ID. To display new user information, click **Refresh**.

NOTE: BMC convention for enabling an 'anonymous' login is to configure the entry for User ID 1 with a null username (all zero's) and a null password (all zero's). Applications may then present this to the user as an anonymous login.

The screenshot shows the 'Users' configuration page in the GIGABYTE Embedded Management Software. The page has a blue header with the GIGABYTE logo and navigation links (Support, Help, About, Logout). A sidebar on the left contains a tree view of the software's configuration options, with 'Users' selected under 'MergePoint® EMS'. The main content area is titled 'Users' and includes two buttons: 'Apply Changes' and 'Refresh'. Below the buttons is a note: 'To configure a particular user, click the User ID. If Password policy check is enabled, password strength checking will be enabled while updating user configuration.' There is a checkbox labeled 'Password Policy Check Enable' which is currently unchecked. A table lists 16 users with columns for User ID, State, User Name, User Role, IPMI LAN Privilege, IPMI Serial Privilege, and Serial Over LAN.

User ID	State	User Name	User Role	IPMI LAN Privilege	IPMI Serial Privilege	Serial Over LAN
1	Disabled		None	Administrator	Administrator	Enabled
2	Enabled	admin	Administrator	Administrator	Administrator	Enabled
3	Enabled	ADMIN	Administrator	Administrator	Administrator	Enabled
4	Disabled		None	None	None	Disabled
5	Disabled		None	None	None	Disabled
6	Disabled		None	None	None	Disabled
7	Disabled		None	None	None	Disabled
8	Disabled		None	None	None	Disabled
9	Disabled		None	None	None	Disabled
10	Disabled		None	None	None	Disabled
11	Disabled		None	None	None	Disabled
12	Disabled		None	None	None	Disabled
13	Disabled		None	None	None	Disabled
14	Disabled		None	None	None	Disabled
15	Disabled		None	None	None	Disabled
16	Disabled		None	None	None	Disabled

Services

You can configure the web server parameters (such as, HTTP Port Number, HTTPS Port Number, and Timeout) on a remote computer. By default, the timeout is 1800 seconds.

When you finish the configuration, click **Apply Changes**.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:15:09 (UTC+0000)

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Services

[Apply Changes](#)

Web Server

HTTP Port Number	<input type="text" value="80"/>
HTTPS Port Number	<input type="text" value="443"/>
Timeout	<input type="text" value="1800"/> seconds
Max Sessions	32
Active Sessions	2

IPMI Settings

IPMI Settings provides remote configuration over LAN. To activate IPMI remote configuration by LAN, check Enable IPMI Over LAN option, define the Channel Privilege Level Limit, and enter the Encryption Key.

When you finish the configuration, click **Apply Changes**.

Time Setting

This page provides the mechanism to configure the Network Time acquisition method. With Administrator or Operator privilege level, you can modify configuration settings and click the Apply Changes button to execute the settings, as well as click the Sync Time Now button (when in Requested Mode) to request an immediate clock set.

Operation Mode

Configures the NTP Mode. You can Disable NTP, set **Requested Mode**, or **Daemon Mode** in this parameter.

In **Requested Mode**, you can request an immediate clock synchronization with the NTP server; request will be sent when click the Sync Time Now button.

The **Daemon Mode** runs NTP daemon which sends a NTP request at approximately 5 minute intervals. Multiple NTP servers may be specified to provide redundancy.

Time Synchronization Method

Specifies the synchronization method for Requested Mode. Select **Slew mode** when you want to adjust the time smoothly over time if there are time sensitive applications in place. Select **Step mode** to aggressively change the time using settimeofday() system call.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:16:28 (UTC+0000)

Time Settings

Use this page to configure the Network Time Protocol and Time Zone settings.

Network Time Protocol

Operation Mode	Disabled
NTP Server 1	
NTP Server 2	
NTP Server 3	
Requested Mode's Update Frequency (minutes)	3
Time Synchronization Method	<input type="radio"/> Step Mode <input checked="" type="radio"/> Slew Mode

Time Zone Setting

The Client Time Zone can be changed from modify the time zone of client operating system.

Use Server or Client Time Zone	<input checked="" type="radio"/> Server Time Zone <input type="radio"/> Client Time Zone
Server Time Zone	UTC <input type="button" value="Select..."/> <input type="button" value="Set to UTC"/>

Navigation Menu:

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Language

This page allow users to choose preferred language when using the WebUI.

When you finish the configuration, click **Apply Change**.

The screenshot shows the GIGABYTE Embedded Management Software (EMS) interface. At the top, there is a navigation bar with the GIGABYTE logo and the text "MergePoint® Embedded Management Software" on the left, and "Support Help About Logout" on the right. Below the logo, the user is logged in as "admin (Administrator)" and the date is "Thu May 19 2016 3:16:51 (UTC+0000)".

The left sidebar contains a tree view of the configuration options, including:

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Language

[Apply Changes](#) [Refresh](#)

This page provides the language display setting for WebGUI, Virtual KVM Viewer, and Virtual Media Session.

Language

Sessions

This screen displays information on Active Sessions. Additionally, the trash can icon provides the delete function for privileged users. Click Session log to view the session log. Click **Refresh** to refresh the Sessions status.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:17:22 (UTC+0000)

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Sessions

[Session Log](#) [Refresh](#)

Use this page to view information about the active sessions. Additionally, privileged users can click on the trash can icon to kill an active session.

Session ID	User Name	IP Address	Session Type	Kill
1	admin	10.202.16.69	GUI	
2	admin	10.1.2.77	GUI	N/A

LDAP

LDAP screen allows download user list of LDAP server then create Gigabyte Management Console user account from this list directly.

Check the box below to enable LDAP authentication and enter the required information to access the LDAP server. Click **Apply Changes** to save your changes.

The screenshot shows the LDAP Configuration Page in the MergePoint Embedded Management Software. The page title is "LDAP Configuration Page". At the top right, there are links for "Support", "Help", "About", and "Logout". The user is logged in as "admin (Administrator)" on "Thu May 19 2016 3:17:47 (UTC+0000)".

The left sidebar contains a navigation menu with categories like "MergePoint EMS", "Properties", "Configuration", "Network", "Network Security", "Security", "Users", "Services", "IPMI", "Time Settings", "Language", "Sessions", "LDAP", "Update", "Utilities", "Server Information", "LEDs", "Sensor Monitor", "Power", "Control", "Consumption", "System Event Log", "FRU Information", "Event Management", "Platform Events", "Trap Settings", "Email Settings", "Serial Over LAN", "vKVM & vMedia", "Launch", "Configuration", "Hardware", "CPU", "Memory", "Storage", "PSU Information", and "System NIC".

The main content area has a heading "LDAP Configuration Page" and two buttons: "Apply Changes" and "Refresh". Below the heading, there is a checkbox for "Enable LDAP" which is currently unchecked. A note states: "Before uploading certificate, any change to Certificate File Path should be saved." Below this, there is a "File Path" input field with a browse button and an "Upload Certificate" button.

The configuration table below has the following settings:

Enable Encryption for LDAP client	<input checked="" type="checkbox"/>
Validate Server Certificate at Binding	<input type="checkbox"/>
Certificate File Path	/etc/certs/cacerts/idap.cert
Use DNS to find servers	<input type="checkbox"/>
Domain Source	Use Domain from Login
Domain Name for DNS SRV request	
Service Name	ldap
Domain Controller 1	
Domain Controller 1's Port	389
Domain Controller 2	
Domain Controller 2's Port	389
Domain Controller 3	
Domain Controller 3's Port	389
Base Domain Name	
UID Search Object value	sAMAccountName
Group Filter	
Binding Method	Use Login Credentials
Client ID used with CC binding	
Client Password used with CC binding	
Group ID Attribute	memberOf
Attribute to query permission in group	

Updates

The firmware can be updated remotely.

To update firmware, follow the instruction below:

1. Select Update Type.
2. Select the file on your local system by using **Browse**.

Click **Upload** to update to the new version of firmware.

The screenshot shows the 'Firmware Update' page in the MergePoint EMS web interface. The page has a dark blue header with the GIGABYTE logo and navigation links. A left sidebar contains a tree view of system settings. The main content area is titled 'Firmware Update' and includes an 'Upload' section with instructions and a form.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:18:10 (UTC+0000)

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Firmware Update

Upload

① Select an image file and click upload. The upload process will terminate all other sessions including Virtual KVM Viewer and Virtual Media Session.
After the upload process is started, any attempt to refresh, logout or navigate away from the update page will restart the system.

Firmware Type	BMC	▼
File Path	<input type="text"/>	瀏覽...
		<input type="button" value="Upload"/>

Utilities

Utilities provides BMC reboot and Factory default restore functions.

1. To reboot system, click **Reboot**.
2. To restore factory default, click **Factory Default**.
3. To Adjust the PWM offset for the system fans, enter offset values and click **Submit**.
4. To update Logo, select the file on your local system using **Browse** and click **Update**.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™

Welcome admin (Administrator) !
Thu May 19 2016 3:18:29 (UTC+0000)

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Utilities

Reboot

Click 'Reboot' button to reboot Embedded Management Software.

Factory Default

Click 'Factory Default' button to reset Embedded Management Software to default.

Fan Configuration

Adjust the PWM offset for the system fans. The input value must be an integer from 1 to 127 for increasing and from -1 to -127 for decreasing. Default is set to 0.

PWM mode	ODM Define
PWM offset	0

Update Logo

The upload file should include `logo_left.png` and `logo_background.png` packaged as tar, and should smaller than 50KB.

File Path	<input type="text"/>	<input type="button" value="浏览..."/>	<input type="button" value="Update"/>
-----------	----------------------	--------------------------------------	---------------------------------------

Server Information

LEDs

Click **Turn On** to light on the front panel ID indication LED remotely.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:19:25 (UTC+0000)

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LEDs

[Refresh](#)

ⓘ Use the page to view the status of the LEDs. Note that turning on/off LED may not take effect immediately. You may need to refresh the page to view the latest status of the LEDs.

Chassis Identifier LED

Status	Action
	Turn On

Sensor Monitor

The Sensor monitor provides general configuration for related system hardware monitoring. To view the Probe list, click **Show Graph**. And click **Refresh** to update current probe list.

MergePoint® Embedded Management Software
Support Help About Logout

GIGABYTE™
Welcome admin (Administrator) !
Thu May 19 2016 3:19:55 (UTC+0000)

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Sensor Monitor

Show Graph Refresh

General Settings

Auto Refresh Interval	Never Auto-Refresh
Sensor Type	Temperatures
Display Type	<input checked="" type="radio"/> All Sensors <input type="radio"/> Active Sensors

Probe List

Status	Probe Name	Reading	Lower Non-Critical	Upper Non-Critical	Lower Critical	Upper Critical	Lower Non-Recoverable	Upper Non-Recoverable
✓	CPU0_TEMP	39 °C	5 °C	87 °C	0 °C	90 °C	N/A	N/A
✓	CPU1_TEMP	42 °C	5 °C	87 °C	0 °C	90 °C	N/A	N/A
✓	DIMM_P0_A0	33 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P0_A1	33 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P0_B0	30 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P0_B1	32 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P0_C0	35 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P0_C1	32 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P0_D0	32 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P0_D1	31 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_E0	33 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_E1	33 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_F0	32 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_F1	31 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_G0	32 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_G1	33 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_H0	32 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	DIMM_P1_H1	30 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	HDD_TEMP_1	22 °C	N/A	55 °C	N/A	60 °C	N/A	N/A
✓	HDD_TEMP_2	23 °C	N/A	55 °C	N/A	60 °C	N/A	N/A
✓	FP_TEMP	23 °C	5 °C	96 °C	0 °C	99 °C	N/A	N/A
✓	VR_P0_TEMP	44 °C	5 °C	102 °C	0 °C	107 °C	N/A	N/A
✓	VR_D_AG_TEMP	39 °C	5 °C	88 °C	0 °C	93 °C	N/A	N/A
✓	VR_D_BD_TEMP	37 °C	5 °C	88 °C	0 °C	93 °C	N/A	N/A
✓	VR_P1_TEMP	41 °C	5 °C	102 °C	0 °C	107 °C	N/A	N/A
✓	VR_D_EG_TEMP	35 °C	5 °C	88 °C	0 °C	93 °C	N/A	N/A
✓	VR_D_FH_TEMP	39 °C	5 °C	88 °C	0 °C	93 °C	N/A	N/A
✓	MB_TEMP1	36 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	MB_TEMP2	37 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A
✓	MB_TEMP3	34 °C	5 °C	75 °C	0 °C	80 °C	N/A	N/A

Power Control

The Power Control allows you to power on/off/cycle the remote host system. Additionally you can see the remote power status.

To perform the power control operation, select the operation and click **Apply Changes**.

The screenshot shows the GIGABYTE Embedded Management Software interface. At the top, there is a navigation bar with "MergePoint® Embedded Management Software" on the left and "Support Help About Logout" on the right. Below this is a blue header with the "GIGABYTE™" logo on the left and "Welcome admin (Administrator) ! Thu May 19 2016 3:22:57 (UTC+0000)" on the right. A left sidebar contains a tree view of navigation options, including "MergePoint® EMS", "Properties", "Configuration", "Network", "Network Security", "Security", "Users", "Services", "IPMI", "Time Settings", "Language", "Sessions", "LDAP", "Update", "Utilities", "Server Information", "LEDs", "Sensor Monitor", "Power", "Control", "Consumption", "System Event Log", "FRU Information", "Event Management", "Platform Events", "Trap Settings", "Email Settings", "Serial Over LAN", "vKVM & vMedia", "Launch", "Configuration", "Hardware", "CPU", "Memory", "Storage", "PSU Information", and "System NIC". The main content area is titled "Power Control" and features two buttons: "Apply Changes" and "Refresh". Below the buttons is a text instruction: "In this page, you can view your server's power status and click Refresh to refresh the screen. To perform a power control operation, select the operation you wish to perform and click Apply Changes." There are two sections: "Power Status" showing "ON" and "Power Control Operations" with four radio button options: "Power On System", "Power Off System", "Power Cycle System", and "Hard Reset (Restart)".

Power Consumption

This section allows user to configure the power policies for the system.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™

Welcome admin (Administrator) !
Thu May 19 2016 3:23:18 (UTC+0000)

- ▣ MergePoint® EMS
 - Properties
 - ▣ Configuration
 - Network
 - Network Security
 - Security
 - Users
 - Services
 - IPMI
 - Time Settings
 - Language
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 - LDAP
 - Update
 - Utilities
 - ▣ Server Information
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 - Sensor Monitor
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 - ▣ Event Management
 - Platform Events
 - Trap Settings
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 - Serial Over LAN
 - ▣ vKVM & vMedia
 - Launch
 - Configuration
 - ▣ Hardware
 - CPU
 - Memory
 - Storage
 - PSU Information
 - System NIC

Power Consumption

[Show Watts Graph](#) [Apply Changes](#) [Refresh](#)

Power Reading

Current Power Consumption	279 W 952 BTU/hr
Max Power Consumption	430 W 1468 BTU/hr
Min Power Consumption	236 W 805 BTU/hr
Average Power Consumption	278 W 949 BTU/hr

System Event Log

It records the event when sensor has an abnormal state. When the log matches the pre-defined alert, the system sends out the notification automatically, if it is pre-configured.

System Event Log

To sort system event logs, click the Date/Time

System Event Count (Current / Maximum) 1024 / 1024

Severity	Date/Time	Description
Info	[System Boot]	CPU1: Processor sensor: Processor Presence detected was asserted
Info	[System Boot]	PSU1: Power Supply sensor: Presence detected was asserted
Info	[System Boot]	CPU0: Processor sensor: Processor Presence detected was asserted
Info	[System Boot]	System Software event: Processor sensor: IERR was asserted
Info	[System Boot]	System Software event: Processor sensor: Thermal Trip was asserted
Info	[System Boot]	System Software event: Processor sensor: Processor Presence detected was asserted
Info	[System Boot]	PSU2: Power Supply sensor: Presence detected was asserted
Info	[System Boot]	CPU1: Processor sensor: Processor Presence detected was asserted
Info	[System Boot]	PSU2: Power Supply sensor: Presence detected was asserted
Info	[System Boot]	CPU0: Processor sensor: Processor Presence detected was asserted
Info	[System Boot]	PSU1: Power Supply sensor: Presence detected was asserted
Info	[System Boot]	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	[System Boot]	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 10:53:19 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 12:17:27 (UTC+0000)	System Software event: OS Boot sensor: boot completed - boot device not specific was asserted
Info	2018-05-04 12:17:27 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 12:17:43 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 12:18:00 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 12:18:02 (UTC+0000)	System Software event: OS Boot sensor: boot completed - boot device not specific was asserted
Info	2018-05-04 13:17:43 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 13:17:58 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 13:18:11 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 13:18:04 (UTC+0000)	System Software event: OS Boot sensor: boot completed - boot device not specific was asserted
Info	2018-05-04 15:33:11 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 15:33:27 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 15:33:53 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 15:54:31 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 15:54:47 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 16:24:51 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 16:58:58 (UTC+0000)	System Software event: OS Boot sensor: boot completed - boot device not specific was asserted
Info	2018-05-04 16:59:59 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	[System Boot]	CPU1: Processor sensor: Processor Presence detected was asserted
Info	[System Boot]	PSU2: Power Supply sensor: Presence detected was asserted
Info	[System Boot]	CPU0: Processor sensor: Processor Presence detected was asserted
Info	[System Boot]	PSU1: Power Supply sensor: Presence detected was asserted
Info	[System Boot]	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	[System Boot]	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 18:08:57 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 18:12:46 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 18:20:53 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 18:21:08 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 18:21:11 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 18:22:05 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 18:30:11 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 18:30:14 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 18:30:26 (UTC+0000)	System Software event: OS Boot sensor: boot completed - boot device not specific was asserted
Info	2018-05-04 17:04:48 (UTC+0000)	System Software event: System Event sensor: OEM System Boot Event was asserted
Info	2018-05-04 17:05:02 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 17:05:09 (UTC+0000)	System Software event: System Event sensor: Timestamp Clock Synch was asserted
Info	2018-05-04 17:05:26 (UTC+0000)	System Software event: OS Boot sensor: boot completed - boot device not specific was asserted

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | Next >

Event Management

FRU Information

The FRU page is a simple display page for basic system ID information, as well as System product information. Click **Refresh** to update current FRU information.

MergePoint® Embedded Management Software
Support Help About Logout

GIGABYTE™
Welcome admin (Administrator)!
Thu May 19 2016 3:25:01 (UTC+0000)

- ▣ MergePoint® EMS
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 - Trap Settings
 - Email Settings
 - Serial Over LAN
 - ▣ vKVM & vMedia
 - Launch
 - Configuration
 - ▣ Hardware
 - CPU
 - Memory
 - Storage
 - PSU Information
 - System NIC

FRU Information

Refresh

i Use this page to view FRU information.

Settings	
FRU ID	0 ▾
Area Type	All Areas ▾

Common Header	
Common Header Format Version	1

Internal Use Area	
No Records Found	

Chassis Info Area	
Chassis Info Area Format Version	1
Chassis Type	Rack Mount Chassis
Chassis Part Number	01234567
Chassis Serial Number	01234567890123456789AB

Board Info Area	
Board Area Format Version	1
Mfg. Date / Time	unspecified
Board Manufacturer	GIGABYTE
Board Product Name	MT60-SC0
Board Serial Number	GG4P5700040
Board Part Number	01234567
FRU File ID	No Records Found

Product Info Area	
Product Area Format Version	1
Manufacturer Name	GIGABYTE
Product Name	R270-T61
Product Part/Model Number	000000000001
Product Version	0100
Product Serial Number	01234567890123456789AB
Asset Tag	01234567890123456789AB
FRU File ID	No Records Found

MultiRecord Area	
No Records Found	

Platform Event

A platform event filter (PEF) can trigger an action and generate an alert when a critical hardware-related event occurs. For each PEF, you can choose the action to be taken when a platform event occurs.

You can also choose to generate and send an alert when a platform event occurs. In the Platform Events screen, you can enable the generation of platform event alerts globally by clicking Global Alerting Enable.

When you finish the configuration, click **Apply Changes**.

Platform Events

Platform Event Filters (PEF) Action Global Control List

Action Name
<input checked="" type="checkbox"/> Reboot
<input checked="" type="checkbox"/> Power Cycle
<input checked="" type="checkbox"/> Power Off
<input checked="" type="checkbox"/> Generate PET

Platform Event Filters (PEF) List

Global Alerting Enable Note: (This enables/disables both PEF and email alerts)

Filter Name	None	Reboot	Power Cycle	Power Off	Generate PET
Threshold Type, Temperature Critical Filter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Threshold Type, Temperature Warning Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threshold Type, Voltage Critical Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threshold Type, Voltage Warning Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threshold Type, Fan Critical Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threshold Type, Fan Warning Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensors-specific Type, Chassis Intrusion Critical Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensors-specific Type, Processor Critical Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensors-specific Type, Power Supply Critical Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensors-specific Type, Memory Critical Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sensors-specific Type, Critical Interrupt Critical Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trap Settings

In the Trap Settings, user can set the IPv4 and Ipv6 Destination List.

IPv6 and IPv4 are two completely separate protocols. IPv6 is not backwards compatible with IPv4, and IPv4 hosts and routers will not be able to deal directly with IPv6 traffic.

IPv6 has a significantly larger address space than IPv4. This results from the use of a 128-bit address, whereas IPv4 uses only 32 bits.

When you finish the configuration, click **Apply Changes**.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:25:58 (UTC+0000)

Trap Settings Apply Changes

ⓘ Before sending test trap, please make sure changes to the target Destination and Community String have been saved by clicking Apply Changes.

IP Destination List

Destination	Enable	IPv4/IPv6	IP Address	Test
IP Destination 1	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap
IP Destination 2	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap
IP Destination 3	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap
IP Destination 4	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap
IP Destination 5	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap
IP Destination 6	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap
IP Destination 7	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap
IP Destination 8	<input type="checkbox"/>	<input checked="" type="radio"/>	0.0.0.0	Send Test Trap

Community String

Community Name

Email Settings

If you want the alert to be sent by email, you can configure to specify the e-mail address, subject and message in the Email Settings. After you finish the configuration, click Apply Change to save the settings.

SMTP

Set E-mail (SMTP) server IP address for sending alert notification to user.

Check the SMTP Authentication **Enabled** box and enter the **SMTP IP address**, **User Name**, **Password**; select the **STARTTLS Mode** and **SASL Mode** from the drop-down list.

When you finish the configuration, click “Apply Changes”.

The screenshot displays the 'Email Settings' page in the GIGABYTE Embedded Management Software. The page is divided into several sections:

- Sender Information:** A text input field for the 'From' address, currently set to 'GIGABYTE-01234567890123456789AB@gigabyte.intxa'.
- Destination Email Addresses:** A table with four rows, each representing an email alert. Each row has an 'Enable' checkbox, a 'Destination Email Address' input field, an 'Email Description' (all set to 'MergePoint_email'), and a 'Test' button labeled 'Send Alert [1-4]'. All 'Enable' checkboxes are currently unchecked.
- SMTP (email) Server Settings:** Two input fields: 'SMTP IP Address' (set to '0.0.0.0') and 'SMTP Port Number' (set to '25').
- SMTP Authentication:** An 'Enable' checkbox (unchecked) with a tooltip that reads 'Anonymous account will be used when authentication is disabled.' Below it are input fields for 'Username' and 'Password'. At the bottom are two dropdown menus: 'STARTTLS Mode' (set to 'AUTO') and 'SASL Mode' (set to 'AUTO').

A navigation sidebar on the left lists various system settings, with 'Email Settings' highlighted. The top right of the page shows the user 'admin (Administrator)' and the date 'Thu May 19 2016 3:26:25 (UTC+0000)'. An 'Apply Changes' button is located at the top right of the main content area.

Serial Over LAN

You can configure the Serial Over LAN settings on this screen. Check the **Enable Serial Over LAN** box and select the **Baud Rate** and **Channel Privilege Limit** from the drop-down list. After you finish the configuration, click **Apply Change** to save the settings.

The screenshot shows the 'Serial Over LAN' configuration page within the GIGABYTE Embedded Management Software. The interface includes a top navigation bar with the GIGABYTE logo and user information. A left sidebar contains a tree view of configuration options, with 'Serial Over LAN' selected. The main content area displays three settings: 'Enable Serial Over LAN' (checked), 'Baud Rate' (set to 115.2 kbps), and 'Channel Privilege Level Limit' (set to Administrator). An 'Apply Changes' button is located in the top right corner of the configuration area.

Setting	Value
Enable Serial Over LAN	<input checked="" type="checkbox"/>
Baud Rate	115.2 kbps
Channel Privilege Level Limit	Administrator

vKVM & vMedia

vKVM Viewer and Virtual Media Session Launch

This screen allows you to start a Remote Console session with the host system.

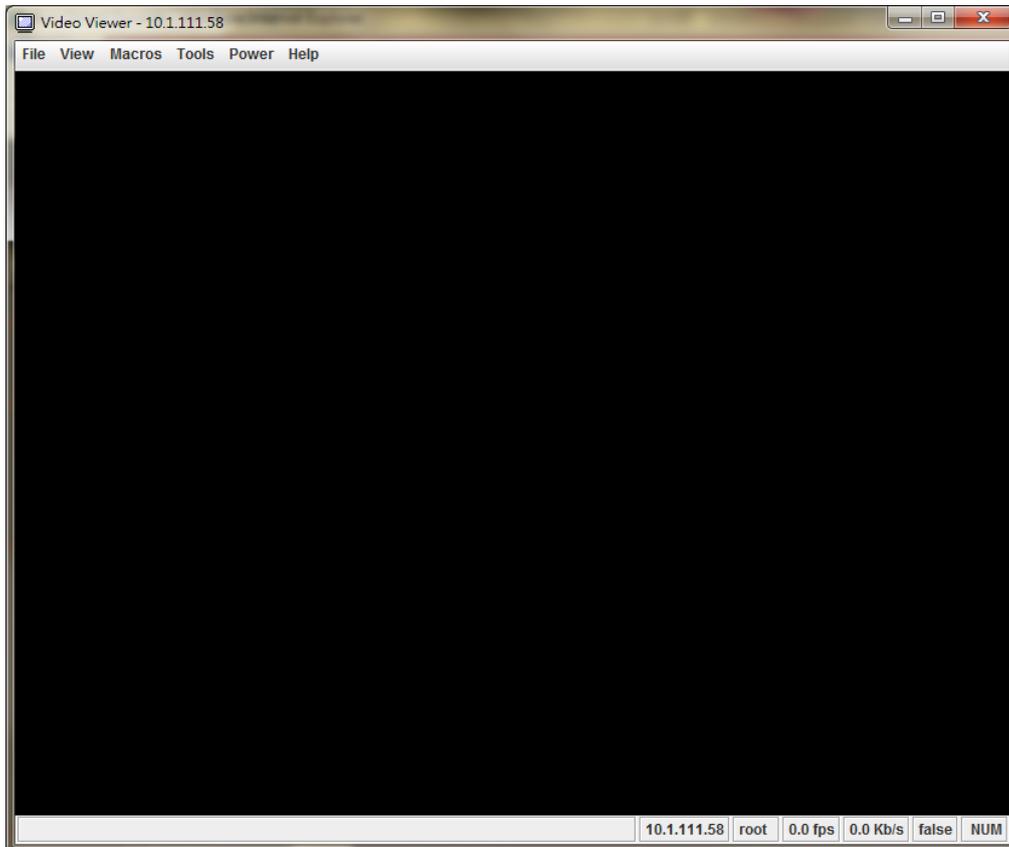
The screenshot displays the GIGABYTE Embedded Management Software interface. At the top, it shows 'MergePoint® Embedded Management Software' and 'Support Help About Logout'. The GIGABYTE logo is prominent. A navigation menu on the left lists various system settings, with 'vKVM & vMedia' expanded to show 'Launch' and 'Configuration'. The main content area is titled 'Virtual KVM Viewer and Virtual Media Session Launch' and contains two buttons: 'Launch Java vKVM Viewer' and 'Launch Java VM Session'. Below the buttons, a message states: 'Use above buttons to launch Virtual KVM Viewer and Virtual Media Session.' Two configuration tables are displayed side-by-side.

Virtual KVM Viewer Configuration	
Enabled	Yes
Max Sessions	4
Active Sessions	0
Remote Port	2068
Video Encryption Enabled	Yes
Preferred Client Type	Java

Virtual Media Session Configuration	
Enabled	Yes
Max Sessions	1
Active Sessions	0
Encryption Enabled	No
Preferred Client Type	Java

Launch Java KVM Viewer

Click **Launch Java KVM Viewer** to launch the redirection console and manage the server remotely. After clicking the button, a console appears as below:

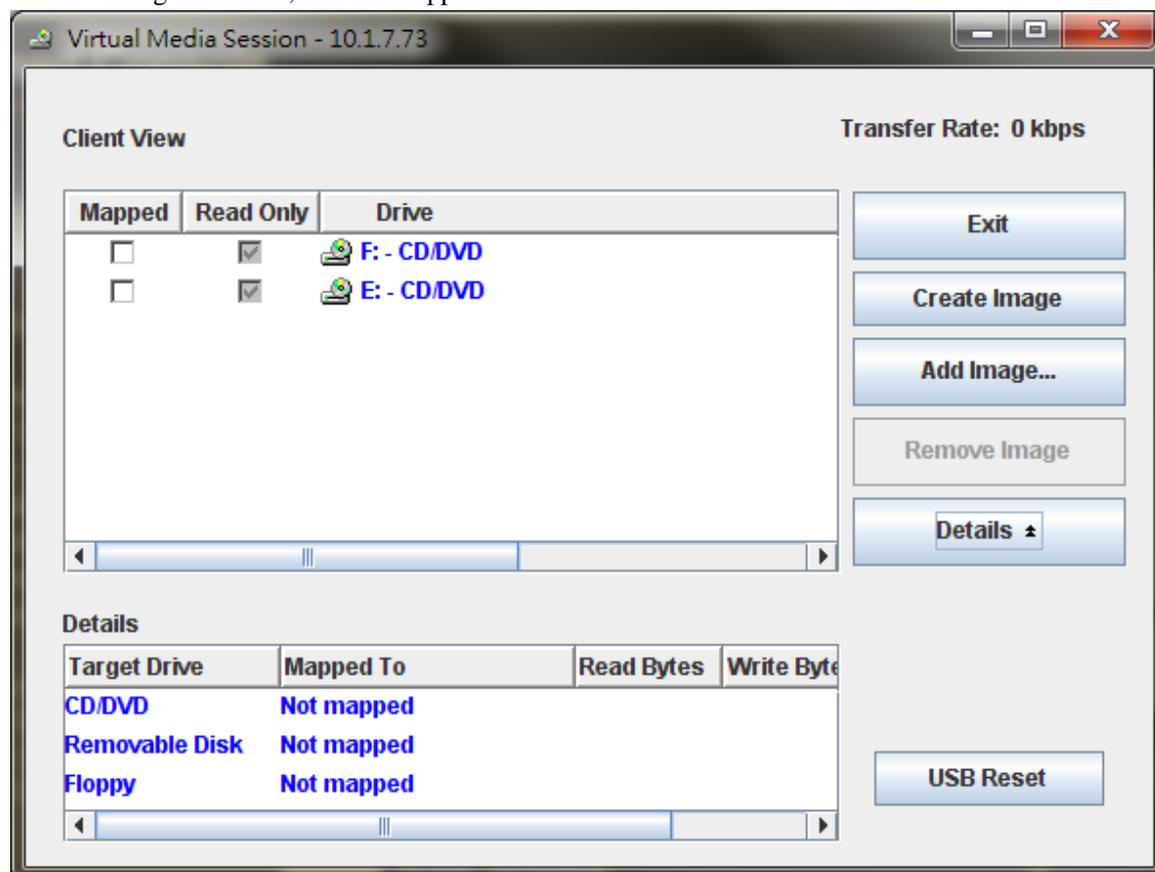


For KVM and remote redirection detail function description, please go to chapter:

KVM Function Description

Launch Java VM Client

Click **Launch Java VM Client** to launch the redirection console and manage the local computer. After clicking the button, a console appears as below:



Function Item	Resulting Action
Mapped	Check the mapped box next to the drive types you want to connect.
Create Image...	Click the Create Image... button and create to the image.
Add Image...	Click the Add Image... button and browse to the image.
Remove Image	Click the Remove Image... button and remove to the image.
Exit	Click Exit button to terminate the Media Redirection wizard.
Details	Click Details to see more information of the image.
USB Reset	Click USB Reset to reset the USB.

vKVM & vMedia Session Configuration

This screen allows you to configure the Remote Console settings. Check the Virtual KVM Configuration **Enabled** box or Virtual Media Configuration **Enabled** box, and select the **Max Sessions**, **Remote Port**, **Video Encryption Enabled**, and **Preference Client** from the drop-down list. After you finish the configuration, click **Apply Change** to save the settings.

The screenshot displays the GIGABYTE Embedded Management Software interface. The top navigation bar includes 'MergePoint® Embedded Management Software', 'Support', 'Help', 'About', and 'Logout'. The user is logged in as 'admin (Administrator)' on 'Thu May 19 2016 3:31:05 (UTC+0000)'. The left sidebar contains a tree view of configuration options, with 'vKVM & vMedia' selected under 'Server Information'. The main content area is titled 'Virtual KVM Viewer and Virtual Media Session Configuration' and features an 'Apply Changes' button. A help icon and text state: 'Use this page to configure Virtual KVM Viewer and Virtual Media Session.' Below this, there are two configuration sections: 'Virtual KVM Viewer Configuration' and 'Virtual Media Session Configuration'. The 'Virtual KVM Viewer Configuration' section includes: 'Enabled' (checked), 'Max Sessions' (4), 'Remote Port' (2068), 'Video Encryption Enabled' (checked), and 'Preferred Client Type' (Java). The 'Virtual Media Session Configuration' section includes: 'Enabled' (checked), 'Encryption Enabled' (unchecked), and 'Preferred Client Type' (Java).

Virtual KVM Viewer Configuration	
Enabled	<input checked="" type="checkbox"/>
Max Sessions	4
Remote Port	2068
Video Encryption Enabled	<input checked="" type="checkbox"/>
Preferred Client Type	Java

Virtual Media Session Configuration	
Enabled	<input checked="" type="checkbox"/>
Encryption Enabled	<input type="checkbox"/>
Preferred Client Type	Java

System Information

Processor Information

This page displays the technical specifications of the installed processor.

MergePoint® Embedded Management Software Support Help About Logout

GIGABYTE™ Welcome admin (Administrator) !
Thu May 19 2016 3:31:39 (UTC+0000)

- ▣ MergePoint® EMS
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 - Language
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 - ▣ Server Information
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 - PSU Information
 - System NIC

Processor Information

Refresh

Status	Name	Processor Brand	Processor Version	Current Speed	State	Core Count
+	✔ Socket	www.cavium.com	2.0	2000 MHz	Processor Presence Detected	48
+	✔ Socket	www.cavium.com	2.0	2000 MHz	Processor Presence Detected	48

Memory Device Information

This page displays the technical specifications of the installed memory.

Click **Refresh** to refresh current installed memory information.

MergePoint® Embedded Management Software
Support Help About Logout

GIGABYTE™
Welcome admin (Administrator) !
Thu May 19 2016 3:32:00 (UTC+0000)

- ▣ MergePoint® EMS
 - Properties
 - ▣ Configuration
 - Network
 - Network Security
 - Security
 - Users
 - Services
 - IPMI
 - Time Settings
 - Language
 - Sessions
 - LDAP
 - Update
 - Utilities
 - ▣ Server Information
 - LEDs
 - Sensor Monitor
 - ▣ Power
 - Control
 - Consumption
 - System Event Log
 - FRU Information
 - ▣ Event Management
 - Platform Events
 - Trap Settings
 - Email Settings
 - Serial Over LAN
 - ▣ vKVM & vMedia
 - Launch
 - Configuration
 - ▣ Hardware
 - CPU
 - Memory
 - Storage
 - PSU Information
 - System NIC

Memory Information

Memory Attributes

Installed Capacity	512.00 GB
Maximum Capacity	1536.00 GB
Slots Available	16
Slots Used	16
Error Correction	Unknown

Individual Memory Details

Summary
Management

Status	Connector Name	Type	Size	State	Rank	Speed
✔	DIMM_P0_A0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P0_A1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P0_B0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P0_B1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P0_C0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P0_C1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P0_D0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P0_D1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_E0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_E1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_F0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_F1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_G0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_G1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_H0	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz
✔	DIMM_P1_H1	DDR4	32.00 GB	Presence detected	Dual Rank	2133 MHz

PSU Information

This page displays the connected power supplies and hardware health information.

Click **Refresh** to view connected power supplies hardware health status.

MergePoint® Embedded Management Software Support Help About Logout

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Thu May 19 2016 3:33:03 (UTC+0000)

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 - System NIC

[Refresh](#) [Power setting](#)

PSU Information

PSU Status

Name	Status	Manufacturer	Product Name	Serial Number	FW Version	REV	Type
1	On	N/A	N/A	N/A	N/A	N/A	N/A
2	On	N/A	N/A	N/A	N/A	N/A	N/A

System NIC Information

This page displays the connected hard disk drive and hardware health information.

Click **Refresh** to view the onboard LAN device related information .

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System NIC

[Refresh](#)

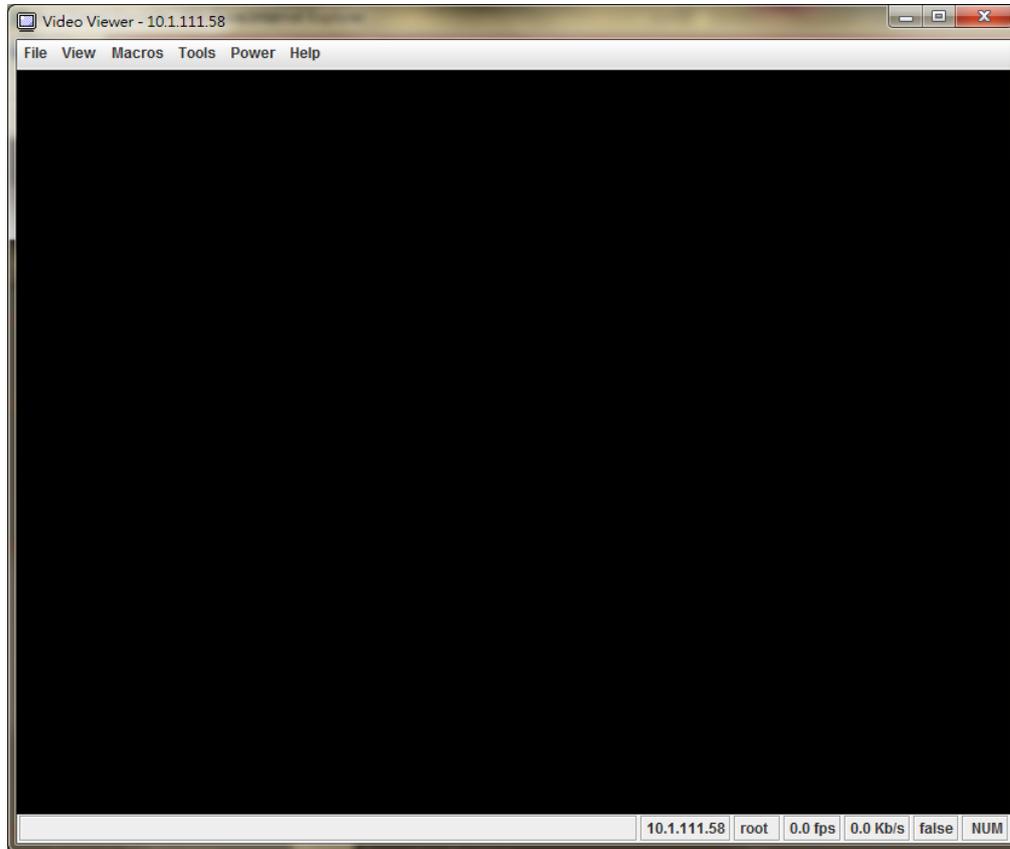
System NIC status

Information on this page will be updated only when system boot.

Manufacturer	MAC Address	OnBoard LAN
Cavium LAN Device	40:8D:5C:E7:AF:0D	Yes
Cavium LAN Device	40:8D:5C:E7:AF:0E	Yes
Cavium LAN Device	40:8D:5C:E7:AF:0F	Yes
Cavium LAN Device	40:8D:5C:E7:AF:10	Yes

KVM Function Description

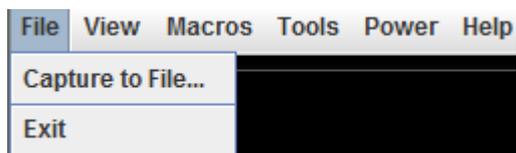
After selecting **KVM Remote Console Redirection** button, system will lead you to the main menu of KVM window which is shown as below:



Main Menu

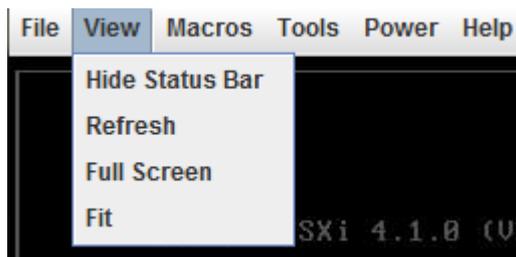
The items in the main menu will be described in the following sections..

File



Menu Item	Resulting Action
File→Capture to File	Save s a snapshot of the target's desktop to a file.
File→Exit	Terminate the KVM session and close.

View

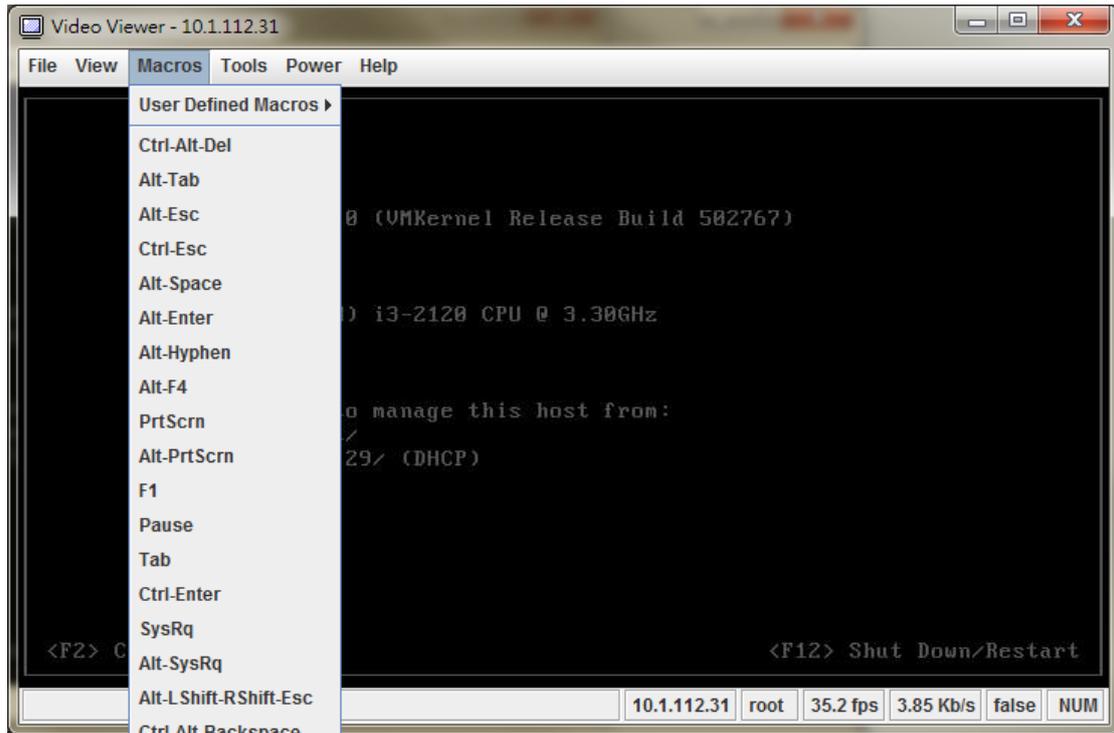


Menu Item	Resulting Action
View → Hide/Show Status Bar	Hide / Show the status bar which includes "Session IP address", "Session Username", "Frame Rate", and "Bandwidth".
View → Refresh	Sends a request to the KVM server asking for a reference screen.
View → Full Screen	Will switch to full screen mode. This menu is only available when not in full screen mode.
View → Fit	Resized the window to the size needed to completely display the targets desktop without an extra border or scrollbars. This will only work if the client desktop is large enough to accommodate the resized window.

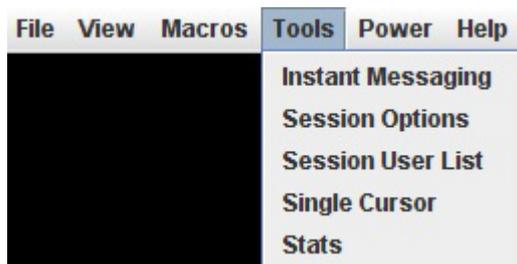
Marcos

Macros are a mechanism to send keystrokes to the target that the user may otherwise not be able to send. One of the most obvious examples of this is the Ctrl-Alt-Del sequence under Window. Because this sequence of keystrokes is intercepted by the Windows OS, the KVM client will never receive the complete sequence and can therefore never send them to the target through normal keyboard operation. The solution to this is to provide an alternate mechanism for generate these keystrokes. We refer to these keystroke sequences as macros.

The list of supported macros is as follows:



Tools

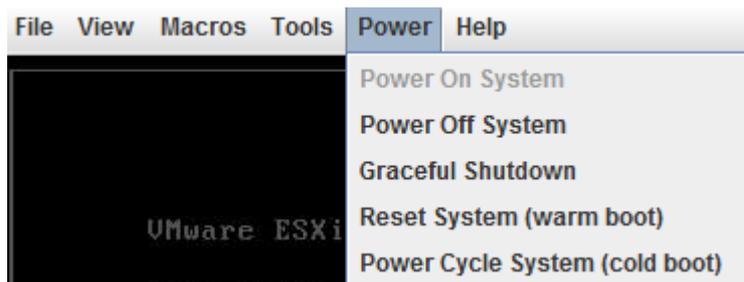


Menu Item	Resulting Action
Tools → Instant Messaging	This will bring up the instant message.
Tools → Session Options	This will bring up the session options dialog. The session options provide the configuration of Keyboard pass through mode, Mouse, and Video Quality .
Tools → Session User List	This will display all shared KVM users name.
Tools → Single Cursor	Causes the viewer to enter single cursor mode.

Tools → Stats

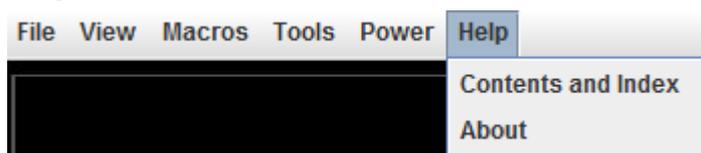
Will display the performance statistics dialog.

Power



Menu Item	Resulting Action
Power → Power On System	Turns the power on.
Power → Power Off System	Turns the power off.
Power → Graceful Shutdown	Issue a graceful shutdown command to the target.
Power → Reset System (warm boot)	Issues a reboot command to the target. Target will reboot without powering off.
Power → Power Cycle System (cold boot)	This will power cycle the target by turning the power off for a short period of time and then back on again.

Help



Menu Item	Resulting Action
Help → Contents and Index	Will cause the viewer help to be displayed.
Help → About	Will display a dialog with the product name, version, and copyright notices.