

ASMB11-iKVM

Server Management Board

User Guide

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Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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CAN ICES-003(B)/NMB-003(B)

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CAN ICES-003(B)/NMB-003(B)

REACH

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS website at http://csr.asus.com/english/REACH.htm.

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to http://csr.asus.com/english/Takeback.htm for detailed recycling information in different regions.



DO NOT throw the motherboard in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.



DO NOT throw the mercury-containing button cell battery in municipal waste. This symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

Safety information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the server.
- When adding or removing devices to or from the server, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing server before you add a device.
- Before connecting or removing signal cables from the server, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area. If you are
 not sure about the voltage of the electrical outlet you are using, contact your local power
 company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

Operation safety

- Before installing any component to the server, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.

About this guide

This user guide contains the information you need when installing and configuring the server management board.

How this guide is organized

This guide contains the following parts:

Chapter 1: Product Introduction

This chapter describes the server management board features and the new technologies it supports.

Chapter 2: Hardware Information

This chapter provides instructions on how to install the board to the server system and install the utilities that the board supports.

Chapter 3: Web-based user interface

This chapter tells you how to use the web-based user interface that the server management board supports.

Appendix

The Appendix shows the location of the LAN ports for server management and BMC connector on server motherboards. This section also presents common problems that you may encounter when installing or using the server management board.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. ASUS websites

The ASUS website provides updated information for all ASUS hardware and software products. Visit <u>https://www.asus.com</u> for more information.

2. Optional documentation

Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

Conventions used in this guide

To ensure that you perform certain tasks properly, take note of the following symbols used throughout this manual.



DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Instructions that you MUST follow to complete a task.



NOTE: Tips and additional information to help you complete a task.

Typography

Bold text	Indicates a menu or an item to select.
Italics	Used to emphasize a word or a phrase.
<key></key>	Keys enclosed in the less-than and greater-than sign means that you must press the enclosed key.
	Example: <enter> means that you must press the Enter or Return key.</enter>
<key1> + <key2> + <key3></key3></key2></key1>	If you must press two or more keys simultaneously, the key names are linked with a plus sign (+).
	Example: <ctrl> + <alt> + </alt></ctrl>
Command	Means that you must type the command exactly as shown, then supply the required item or value enclosed in brackets.
	Example: At DOS prompt, type the command line:
	format A:/S

ASMB11-iKVM specifications summary

Chipset	Aspeed 2600		
Internal RAM	448 MB (System)		
	64 MB (Video)		
Internal ROM	64 MB		
Timers	32-bit Watchdog Timer		
Main features	7th Generation ASPEED Baseboard Management Controller		
	Native PCIe Support		
	2D Video Graphic Adapter with PCIe Bus Interface		
	Remote Presence (iKVM)		
	Secure Boot Engine		
	WebUI Support		
	Redfish Support		
	Security Enhancements		
	Remote Update		
Form factor	21 nm x 21 nm		

* Specifications are subject to change without notice.

Product Introduction

1

This chapter describes the server management board features and the new technologies it supports.

1.1 Welcome!

Thank you for buying an ASUS ASMB11-iKVM server management board!

The ASUS ASMB11-iKVM is an Intelligent Platform Management Interface (IPMI) 2.0-compliant board that allows you to monitor, control, and manage a remote server from the local or central server in your local area network (LAN). With ASMB11-iKVM in your server motherboard, you can completely and efficiently monitor your server in real time. The solution allows you to reduce IT management costs and increase the productivity.

Before you start installing the server management board, check the items in your package with the list below.

1.2 Package contents

Check your server management board package for the following items.

User guide



If any of the above items is damaged or missing, contact your retailer.

1.3 Features

- 1. IPMI 2.0
 - System interface (KCS)
 - LAN interface (supports RMCP+)
 - Intelligent Platform Management Bus (IPMB)
 - Serial Over LAN (SOL)
 - Universal Series Bus (USB)
 - IPMI Serial Interface
 - Field Replaceable Unit (FRU)
 - IPMI Sensor
 - IPMI Event Log
 - Platform Event Trap (PET)
 - Email Alert
 - Internet Protocol version 6 (IPv6)
 - Data Center Manageability Interface (DCMI)
 - Intel Node Manager
 - Platform Environment Control Interface (PECI)
 - Intel SPS (Server Platform Services) 6.0 Compliance
 - Power Control
 - FW Maintenance
 - BMC Syslog & Audit
 - Remote syslog

- SOLSSH
- Backup-Restore BMC Configuration
- BIOS Configuration
- BIOS Update
- ASUS Thermal Radar
- BMC Secured Boot

2. KVM Support

- JViewer support
- HML5Viewer Support
- JViewer Standalone Application
- Capture BSOD as JPEG
- Physical Keyboard Language Selection support
- Keyboard LED sync with Client Keyboard LED status
- Keyboard LED sync with Host Keyboard LED status

3. Remote Media Support

- Remote CD/DVD Device support
- Remote Hard disk server support
- Remote Media multiple image redirection
- Multiple Remote Media CD redirection
- Multiple Remote Media Hard disk redirection

4. Web support

- HTML5 based WebUI Support
- Dashboard
- Sensor
 - Sensor Detail
 - Sensor Threshold Setting
- System Inventory
- FRU Information
- Log & Report
 - IPMI Event Log
 - System Log
 - Audit Log
 - Video Log
- Setting
 - Captured BSOD
 - Date & Time
 - External User Service

- KVM Mouse
- Log Setting
- Manage Licenses
- Media Redirection
- Network
- PAM Order Setting
- Platform Event Filter (PEF)
- Services
- Simple Mail Transfer Protocol (SMTP)
- Secure Sockets Layer (SSL)
- System Firewall
- User Management
- Video Recording
- Web Server Instances
- FAN Control (ASUS Thermal Radar)
- PSU Cold Redundancy
- Remote Control
 - iKVM
 - HTML5 based SOL
- Image Redirection
- Power Control
- Locator LED
- Maintenance

5. Network Support

- IPv4 support
- IPv6 support
- Bonding Support
- Fully Qualified Domain Name (FQDN) Support
- Network Time Protocol (NTP) Server support
- Advanced IP Routing
- Set default Network to DHCP
- Dynamic DNS Support
- Ethernet Over USB Support
- System Firewall Support
- Timezone Configuration Support
- NCSI Support
- Active Directory Authentication Support
- LDAP Authentication Support

- PAM Reorder Support
- Radius Authentication Support
- SNMP Support
- SNMP Trap v2c/v3 Alert at Runtime
 - CPU, Memory Warning
 - Temperature, Fan and PSU

** Specifications are subject to change without notice.

1.4 System requirements

Before you install the ASMB11-iKVM board, check if the remote server system meets the following requirements:

- ASUS server motherboard with Baseboard Management Controller (BMC) connector*
- LAN (RJ-45) port for server management**
- Firefox (Windows and Linux), Chrome (Windows and Linux), Edge-Chromium Version (Windows), Safari (macOS)



- Visit <u>www.asus.com</u> for an updated list of server motherboards that support the ASMB11-iKVM.
- ** See the Appendix for details.

1.5 Network setup

The ASMB11-iKVM server management board installed on the remote server connects to a local/central server via direct LAN connection or through a network hub. The supported server management configurations are listed below.

Direct LAN connection



LAN connection through a network hub





Getting Started

This chapter provides instructions on how to install the board to the server system and install the utilities that the board supports.

2.1 Before you proceed

Take note of the following precautions before you install the server management board to the remote server system.

- Unplug the server system power cord from the wall socket before touching any component.
 - Use a grounded wrist strap or touch a safely grounded object or to a metal object, such as the power supply case, before handling components to avoid damaging them due to static electricity.
 - Hold components by the edges to avoid touching the ICs on them.
 - Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component.
 - Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

2.2 Hardware installation

To set up the server system for server management:

1. Insert the LAN cable plug into the LAN port for server management.



Refer to the Appendix for the location of the LAN port for server management.

2. For direct LAN configuration, connect the other end of the LAN cable to the local/central server LAN port.

For connection to a network hub or router, connect the other end of the LAN cable to the network hub or router.

 Ensure the VGA, USB, PS/2 cables are connected, then connect the power plug to a grounded wall socket.



The system will need up to 120 seconds to power up for the first time if the AC power cable is unplugged.

2.3 Firmware update and IP configuration

Follow the below steps to update the firmware and configure the IP source before using the ASMB11-iKVM board for the first time.

2.3.1 Updating the firmware on Linux

1. Navigate to the tools folder, then run the update script.

To update the firmware remotely:

```
./FWUpdate_Linux.sh [IP address] [username] [password] [options]
To update the firmware locally:
```

./FWUpdate_Linux.sh -local [username] [password] [options]



- Make sure you are connected to the internet.
- Supported options are -p to preserve configuration options or -f to force boot.
- 2. If prompted, type Y to perform a full firmware upgrade.

2.3.2 Updating the firmware on Windows

1. Navigate to the tools folder, then run the update script.

To update the firmware remotely:

```
./FWUpdate_Win.bat [IP address] [username] [password] [options]
To update the firmware locally:
```

./FWUpdate_Win.bat -local [username] [password] [options]



- Make sure you are connected to the internet.
- Supported options are -p to preserve configuration options or -f to force boot.
- The AMI driver must be installed for USB-Lan support on Windows
- 2. If prompted, type Y to perform a full firmware upgrade.

2.4 BIOS configuration

Follow the below steps to configure the BIOS before connecting to the ASMB11-iKVM board.



Update the remote server BIOS file following the instructions in the motherboard/ system user guide. Visit <u>www.asus.com</u> to download the latest BIOS file for the motherboard.

 The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.

2.4.1 Running the BIOS BMC configuration

To configure the BMC in the BIOS:

- 1. Restart the remote server, then press during POST to enter the BIOS setup.
- 2. Go to the **Server Mgmt** menu, then select the **BMC network configuration** sub-menu. Use this sub-menu to configure the BMC settings.
- 3. When finished, press <F10> to save your changes and exit the BIOS setup.

2.5 Server Mgmt menu

The Server Management menu displays the server management status and allows you to change the settings.

Not all BIOS items are mentioned in this section as they may vary between system models. Only the BMC related items are mentioned.

Main Advanced Platform Config	Aptio Setup – AMI uration Socket Configuration	Event Logs Server Mgmt
BMC Self Test Status BMC Device ID BMC Device Revision BMC Firmware Revision IPMI Version IPMI BMC Interface BMC Support DS Matchdog Timer	PASSED 32 81 1.01.02 2.0 KCS [Enabled] [Disabled]	Enable/Disable interfaces to communicate with BMC
OS Wtd Timer Timeout OS Wtd Timer Policy	10 [Reset]	
▶ System Event Log ▶ Bmc self test log ▶ BMC network configuration ▶ View System Event Log		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save Changes & Reset F12: Print Screen ESC: Exit
	on 2.21.1279 Copyright (C) 202	

OS Watchdog Timer

This item allows you to start a BIOS timer which can only be shut off by Intel Management Software after the OS loads.

Configuration options: [Disabled] [Enabled]

The following items are configurable only when the OS Watchdog Timer is set to [Enabled].

OS Wtd Timer Timeout

Allows you to configure the length fo the OS Boot Watchdog Timer. Configuration options: [5 minutes] [10 minutes] [15 minutes] [20 minutes]

OS Wtd Timer Policy

This item allows you to configure the how the system should respond if the OS Boot Watch Timer expires.

Configuration options: [Do Nothing] [Reset] [Power Down]

2.5.1 System Event Log

Allows you to change the SEL event log configuration.

All values changed here do not take effect until computer is restarted. Aptio Setup – AMI Server Mgmt Enabling/Disabling Options Change this to enable or disable event logging for error/progress codes during Erasing Settings Enase SEL [No1] NOTE: All values changed here do not take effect until computer is restarted. ++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F5: Optimized Defaults F10: Save Changes & Reset F12: Print Screen ESC: Exit 121 AM

SEL Components

Allows you to enable or disable event logging for error/progress codes during boot. Configuration options: [Disabled] [Enabled]



Erase SEL

Allows you to choose options for erasing SEL. Configuration options: [No] [Yes, On next reset] [Yes, On every reset]

2.5.2 BMC network configuration

Allows you to set the BMC LAN parameter settings.

	Aptio Setup – AMI	Server Mgmt
BMC network configuration жананиеннаниеннаниенна Configure IPv4 support жананиеннаниеннаниенна	ŕ	Select to configure LAN channel parameters statically or dynamically(by BIOS or BNC). Previous State option will not modify any BMC
DM_LAN1 Configuration Address source	[Provinue State]	network parameters during BIOS
Current Configuration Address sour	DynamicAddressBmcDhcp	pruse
Station IP address	0.0.0.0	
Subnet mask Station MAC address	0.0.0.0 00-F0-18-08-29-02	
Router IP address	0.0.0.0	
Router MAC address	00-00-00-00-00	
		++: Select Screen
Shared LAN Sopfiguration Address course	[Provious State]	T∔: Select Item Enter: Select
Current Configuration Address source	StaticAddress	+/-: Change Ont.
Station IP address	192.168.0.74	F1: General Help
Subnet mask	255.255.255.0	F2: Previous Values
Station MAC address	00-E0-18-08-29-03	F5: Optimized Defaults
Router IP address	192.168.0.1	F10: Save Changes & Reset
Nouter And duaress	00-00-00-00-00	ESC: Exit

Configure IPv6 support	· · · · · · · · · · · · · · · · · · ·	

Configure IPV4 support

DM_LAN1 / Shared LAN

Configuration Address source

Allows you to set the LAN channel parameters statically or dynamically (by BIOS or by BMC). [Previous State] option will not modify any BMC network parameters during BIOS phase.

Configuration options: [Previous State] [Static] [DynamicBmcDhcp]



The following items are available only when **Configuration Address source** is set to **[Static]**.

Station IP address

Allows you to set the station IP address.

Subnet mask

Allows you to set the subnet mask. We recommend that you use the same Subnet Mask you have specified on the operating system network for the used network card.

Router IP Address

Allows you to set the router IP address.

Router MAC Address

Allows you to set the router MAC address.

Configure IPV6 support

DM_LAN1 / Shared LAN

IPV6 support

Allows you to enable or disable IPV6 support. Configuration options: [Enabled] [Disabled]



The following items appear only when IPV6 support is set to [Enabled].

Configuration Address source

Allows you to set the LAN channel parameters statically or dynamically (by BIOS or by BMC). [Previous State] option will not modify any BMC network parameters during BIOS phase.

Configuration options: [Previous State] [Static] [DynamicBmcDhcp]



The following items are available only when Configuration Address source is set to [Static].

Station IPV6 address

Allows you to set the station IPV6 address.

Prefix Length

Allows you to set the prefix length (maximum of Prefix Length is 128).

Configuration Router LAN1/2 Address

Allows you to set the LAN channel parameters statically or dynamically (by BIOS or by BMC). Unspecified option will not modify any BMC network parameters during BIOS phase.

Configuration options: [Previous State] [Static] [DynamicBmcDhcp]



The following items are available only when Configuration Router LAN1/2 Address is set to [Static].

IPV6 Router1 IP Address

Allows you to set the IPV6 Router1 IP address.

IPV6 Router1 Prefix Length Lan1/2

Allows you to set the IPV6 router prefix length (maximum of IPV6 Router Prefix Length is 128).

IPV6 Router1 Prefix Value Lan1/2

Allows you to change the IPV6 router prefix value.

2.5.3 View System Event Log

Allows you to view all the events in the BMC event logs. It may take up to 15 seconds to read all the BMC SEL records.

			Aptio Setup – AMI		Server Mant
					Server Hgnit
No. of lo	g entries .	in SEL : 1978			HEX:
					01 00 02 20 1A E4
DATE	TIME	SENSOR TYPE			5F 20 00 04 08 DF
					01 50 00 00
12/24/20					Generator ID: BMC – LUN #0
12/24/20	04:33:36	Power Supply			(Channel #0)
12/24/20	04:33:39	Power Supply			Sensor Number: OxDF DEM
12/24/20	04:33:39	Power Supply			(Unknown)
12/24/20	04:34:05	Power Supply			Event Description:
12/24/20	04:34:05	Power Supply			Record Type-0x02.
12/24/20	04:34:08	Power Supply			Assertion Event.
12/24/20	04:34:08	Power Supply			
12/24/20	04:39:43	Power Supply			
12/24/20	04:39:43	Power Supply			++: Select Screen
12/24/20	04:42:01	Power Supply			↑↓: Select Item
12/24/20	04:42:04	Power Supply			Enter: Select
12/24/20	04:42:41	Power Supply			+/−: Change Opt.
12/24/20	04:42:44	Power Supply			F1: General Help
12/24/20	04:45:37	Power Supply			F2: Previous Values
12/24/20	04:45:37	Power Supply			F5: Optimized Defaults
12/24/20	04:45:40	Power Supply			F10: Save Changes & Reset
12/24/20	04:45:40	Power Supply			F12: Print Screen
12/24/20	04:46:10	Power Supply			ESC: Exit
12/24/20	04:46:10	Power Supply			
12/24/20	04:46:10	Power Supply		•	
		Version 3	2.21.1279 Copyright (C)	2021	AMT
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Chapter 2:	Getting	Started
onapier 2.	acting	otantou



Web-based User Interface

This chapter tells you how to use the web-based user interface that the server management board supports.

3.1 Web-based user interface

The web-based user interface allows you to easily monitor the remote server's hardware information including temperatures, fan rotations, voltages, and power. This application also lets you instantly power on, power off, or reset the remote server.

To enter the Web-based user interface:

- 1. Enter the BIOS Setup during POST.
- 2. Go to the Server Mgmt Menu > BMC network configuration, then under Configure IPv4 Support, find DMLAN1 and set Configuration Address source to [Static].
- 3. Enter the Station IP address, and Subnet mask.
- 4. Press <F10> to save your changes and exit the BIOS Setup.

3.1.1 Logging into the utility

- 1. Ensure that the LAN cable of the computer is connected to the LAN port of the remote server.
- Open the web browser and type in the same IP address as the one in the remote server.
- 3. The below screen appears. There are two sets of user name and password you may use to login. You may either use the username (admin) and password (admin), or use the username (Administrator) and password (superuser). Click **Sign me in** after the username and password is entered.

ASMB11-iKVM Username Passood US-trafition Sign mp in Torgot my password	ASMB11-iKVM Username Password US-English ⊡Remember Username Sign mic in Tigrget my password		
Username Password US - English Remember Username Sign me in I forgot my password	Username Password US-English Remember Username Sign me in I forgot my password	ASMB11-iKVM	
Password US - English Remember Username Signume in T Forgot my password	Passoord US-English ☐Renember Username Sign me in Tforget my passoord	Username	
US-English US-English Remember Username Sign me in I forgot my password	US - English Remember Username Sight me in Florgot my password	Password	
internet of Username Sign mp in Torget my password	Livenemor (Username Sign me in Liforgot my password	US - English	*
Sign me in I forgot my password	Sign me in I forgot my password	Remember Username	
		Sign me in	

4. 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.



Make sure to change the password for both **admin** and **Administrator** for security purposes.

3.1.2 Using the utility

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

						Acce	ess BIOS	setting	s via Re	dfish
							Toggle sy	nc		
					Message	es	Reloa	d curre	ent page	
					Notifi	cations		Accour	nt inform	ation
1-iKVM ≡					8 A US-6	rgish + 0805	O Sync C Refresh	Ladmin -		
Dashboard Corpo	Panal						d Home	- Osibboard		
- Quick Control				Today (s)	Details	🚨 30 days (a)	Deta	~		
Official On Office	wer Reset Russel On/Off									
Information		LAN Connection		PowerU	nit	Powe	orUnit			
Pewer-On Hours	0.61 hr	Link Status 💌		5 events		20 e	vents			
> Firmware Hodel:	ESC40004-E12	DM_LANS	Disconnected							
Firmware Version:	1.1.20	System LAN 1	Connected							
Firmware Build Times	Oct 7 2022	System LAN 2	Disconnected							
BIOS MB Model:	To									
BIOS Version:	0301									
BIOS Build Time:	10/11/2022									
PSU Cold Redunda	ncy									
	8									
Crist Backendarry C	aid Backsonlancy									
inactive in	active									
								1		
								 .		
ation list				Content winds						
menon nst				Content Willuc	<i>,</i> , , , , , , , , , , , , , , , , , ,					

3.2 Dashboard

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

ASMB11-iKVM	=					■ ▲ US-En	gish + Balos Osj	nc 🖸 Refresh 💄 admin •
Himmunc Information 1.1.30 Oct 7 3922 12:41:39 UTC U Hast Online	Dashboard Control Pa	inel						# Home - Dashboard
Quick Linka.	Quick Control				Today (s)	Details	30 days (+1)	Details
# Dashboard	OPower 0n/0# OPower	er Reset VLocate On/Off						
Sensor	Information.		Law Grossetter					
System inventory	mormation		LAN CONNECTION		Powert	Jnit	Powert	Jnit
O TRU Information	Power-On Hours	0 d 1 hr	Link Status 👻		5 even	its	20 eve	nts
SML Logs & Reports	Firmware Nodel:	ESC4000A-E12	DM_LAN1	Disconnected				
O Settings	Firmware Version:	1.1.20	System LAN 1	Connected				
🖵 Remote Control	Firmware Build Time:	0et 7 2022	System LAN 2	Disconnected				
Gi Image Redirection	BIOS Version:	0205						
Power Control	BIOS Build Time:	10/11/2022						
C Locator LED								
€ Maintenance	PSU Cold Redundanc	SV.						
H• Signost								
	Cold Redundancy Cold inactive inact	Redundancy tive						

3.3 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 delays when retrieving live data. Scroll down to view more items.



3.4 System Inventory

This page displays information about the system's processor, memory controller, baseboard, power, PCIe devices, and storage devices.

ASMB11-iKVM	=					2	▲ US-English * 08105	O Sync O Re	fresh 💄 admin -
Example 2 Internation 1.1.20 Oct 7 2022 11:41:29 UTC • Host Online	System Ir	iventory						-	Nome - System Investory
Quick Links	Processor	Memory Controller Depetition	Power PCIE Device Storag	×					
d Dashboard	Network	interfaces info							
 Sensor 	Name	MACAddress	interfaceEnabled	IPv4Addresses	HostName	FullDuplex	PermanentMACAddress	WHEPIN	State
System inventory	eth1	12:42:20:36:60:0A	true	192.168.50.221	AMI04421ACBCBEE	true	12:A2:20:30:EE0:0A	NA	Enabled
0 FRU Information	bond0	NA	false	NA.	NA	NA.	NA	NA	NA
Legs & Reports >	usb0	88:05:28:07:FA-4F	true	169.254.0.17	NA.	NA.	NA	NA	Enabled
• Settings	eth0	04/42/1A/CB/CB/EE	true	NA.	NA	NA.	04042:1A/CB/CB/EE	NA	NA
Instantine Constant									
G Image Redirection									
O Howar Contra									
A recepted field									
✗ Maintenance									
l¥ Sign out									

3.5 FRU Information

This page displays the BMC's FRU 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.

=	2	▲ US-English v 08/05 0 Sync CRefresh L admin -
FRU Field Replacable Units		# Ham > 190
Available FRU Devices		
-		
EBI Device Name		
Chassis Information	Board Information	Product Information
Chassis Information Area Format Version	Board Information Area Format Version	Product Information Area Format Version
Chassis Type	Language	Language
Chassis Part Number	Manufacture Date Time	Product Manufacturer
Chassis Serial Number	Doard Henufacturer	Product Name
Chassis Extra	Board Product Name	Product Part Number
	Board Serial Number	Product Version
	Board Part Number	Product Serial Number
	FRU File ID	Asset Tag
	Board Extra	FRU File ID
		Product Extra
	E FRU heat hequests one Analable FRU Devices Internet and Catals Information Catal Information Catal Information Catal Information Catal Informati	EV Instringuistations FRU Instringuistations Asalable RSU Devices Into construct Coase kinformation Coase kinformation Coase kinformation Coase kinformation Coase fore Coase for

3.6 Logs & Reports

This menu contains the IPMI Event Log, System Log, Audit Log, and Video Log.



3.6.1 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. Click **Download Event Logs** to download the logs.



To view the Event Log for a selected time period

- 1. From the **Filter By Date** field, select the time period by selecting the **Start Date** and the **End Date** from the calender.
- 2. From the **Filter By Type** field, select the type of event and sensor name to view the events of the selected event type for that sensor.



To clear all events from the list, click the Clear Event Logs button.

3.6.2 System Log

This page displays system event logs for this device (if the options have been configured).



To view the System Log for a selected time period

- 1. From the **Filter By Date** field, select the time period by selecting the **Start Date** and the **End Date** from the calender.
- 2. From the **Event Category** field, select the type of event to view the events of the selected event type.

3.6.3 Audit Log

This page displays audit event logs for this device (if the options have been configured).

Ľ	Logs have to be configured under Settings > Log Settings > Advanced Log Settings in order to display any entries.
ASMB11-iKVM	E A list-trajen * 0 Bos Objec Differen 1 anini -
Economic Information 1.1.20 0x17202213.041.09.01C 11 Host Colore	Audit Log at autop
Quick Linka	0
d Dashboard	
 Sensor 	Filter by bade Start Date O End Date O
System inventory	Audit Log 4 out of 4 event entries
FBU Information	Newslaw 2022
LML Logs & Reports 🛛 👻	10: 4 November 1st 2022, 355:34 pm AM04421AC608EE spc,resteervice: spc,resteervice: -: [25362:15162]NF0(0)ttps Login from IP:192:168:50.118 usersdmin -
 IPHEventLog Section Log 	10:3 November 101 2022, 35458 pm AMI04921ACRCBEE spc_restervice: spc_restervice: -:: [55162: 155162 INFO)HTPS logout from IP:192.168.50.178 useradmin-
> Audit Log	ID-2 November 18 2022-23637 cm AM04421/ADE/DIF say restervice use restervice25162 :25162 MIO/Intra Lorin from IP-182.168.66.178 usersation
» Video Log	
• Settings	In Lindeause 187 2771 z htt: www.ethyrecesc. Jbrlaneause.ibrlaneaus
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ta truge searecton	
V Locasor LLD	
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e sense	

To view the Audit Log for a selected time period, from the **Filter By Date** field, select the time period by selecting the **Start Date** and the **End Date** from the calender.

3.6.4 Video Log

This page displays available recorded video log files (if the options have been configured).



To view the Video Log for a selected time period, from the **Filter By Date** field, select the time period by selecting the **Start Date** and the **End Date** from the calender.

3.7 Settings

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

ASMB11-iKVM	=		S & US-English	 ♥ 8x05 ♥ Sync ♥ Refresh ▲ admin +
Econocciadocnación 11.20 0x17202213/4120 VTC 0 Hast Coline	Settings Configure BMC options			d Home - Settings
Quick Linka.	٥	•		0
# Dashboard	Captured BSOD	Date & Time	External User Services	KVM Mouse Setting
Sensor	E)	a,		4
O System Inventory	Log Settings	Manage Licenses	Media Redirection Settings	Network Settings
FRU Information	14	•	0	~~~
Legs & Reports >	PAM Order Settings	Platform Event Filter	NC Hanagement	Services
O Settings				
Remote Control	X		<u> </u>	19
Gi Image Redirection	SMTP Settings	SSL Settings	System Finewall	User Management
O Power Control		۶	88	Ċ
C Locator LED	Video Recording	IPMI interfaces	Fan Control	PSU Redundancy
f# Sign out				

3.7.1 Captured BSOD

This page allows you to view a captured snapshot of the blue screen captured if the host system has crashed since the last reboot.



The KVM service should be enabled to display the captured BSOD. Configure this at ${\bf Settings} > {\bf Services} > {\bf KVM}.$


3.7.2 Date & Time

This page allows you to set the date and time on the BMC.



3.7.3 External User Services

This page allows you to configure the LDAP/E-directory settings, Active Directory settings, and RADIUS settings.



LDAP/E-directory Settings

This page allows you to set the LDAP/E-directory Settings. The Lightweight Directory Access Protocol (LDAP) is an application protocol for querying and modifying data of directory services implemented in Internet Protocol (IP) networks. If you have an LDAP server configured on your network, you can use it as an easy way to add, manage and authenticate MegaRAC[®] card users. This is done by passing login requests to your LDAP Server. This means that there is no need to define an additional authentication mechanism when using the MegaRAC[®] card. Since your existing LDAP Server keeps an authentication centralized, you will always know who is accessing the network resources and can easily define the user or group-based policies to control access.

Active directory Settings

This page allows you to configure Active Directory Settings. An Active Directory enables a variety of functions including the ability to provide information about objects, organize these objects for easy retrieval and access, allow access by users and administrators, and allow the administrators to configure security settings for the directory.

RADIUS Settings

This page is used to enable or disable RADIUS authentication and enter the required information to access the RADIUS server.

3.7.4 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 right to configure this option.

ASMB11-iKVM	=
Ennouncinformation 1.1.20 Over 7 2002 13.44.09 UTC 0 Head Online	KVM Mouse Setting
Quick Links	Mouse Mode Configuration
	Mouse Mode
Sensor	Absolute Positioning (Unita) Absolute Positioning (Windows)
O System Inventory	Other Mode (SLES-11 OS Installation)
FRU Information	E Save
O Settings	
🖵 Remote Control	

3.7.5 Log Settings

This page allows you to set the log policy for the event log.

ASMB11-iKVM	=	📽 🛦 US-English 🔻 🛛 BROS O Sync 🛛 Refresh 🏦 adminis -
Ennward Information 1.1.20 0x17202213.41.09 UTC 0 Host Delive	Log Settings	Winter - Setting - Legistings
Quick Links.	SEL Log Serrings Policy Advanced Log Serrings	
Sensor		
O System Inventory		
FRU Information		
Lags & Reports >		
Settings		
🖵 Remote Control		
Cir Image Redirection		
Power Control		
🖗 Locator LED		
P Sign out		

SEL Log Settings Policy

This page is used to configure the log policy for the event log

Advanced Log Settings

This page allows you to set advanced settings for the event logs.

3.7.6 Manage Licenses

This page allows you to manage and view license information.

ASMB11-iKVM	=	🖉 🛦 US-English 🔹 0.8105	♦ Sync 🖸 Refresh 💄 admin •
Enneuer.Information 1.1.20 0x17202213.41.09 UTC 0 Host Deline	Manage Licenses		Reme > Settings > Hanage Licenses
Quick Links.	Ver Luniss Ad Lunis Ry		
 Sensor 			
System Inventory			
FRU Information			
🕍 Logs & Reports 🔹 👌			
O Settings			
🖵 Remote Control			
Cill Image Redirection			
O Power Control			
♀ Locator LED			
F+ Sign out			

View Licenses

This page allows you to view Licenses already added as well as the number of days the license is still valid for.

Add License Key

This page allows you to add License keys.

3.7.7 Media Redirection Settings

This page allows you to configure media redirection settings.

ASMB11-iKVM	=		S A US-English	v 0 8105 ♦ Sync C Refresh 1 admin -
Econocci Information 11.20 0x1720221124120 UTC 0 Yout Colline	Media Redirection			iii mome \times Settings \times . Nodia Redirection
QuickLinks. •	General Settings	Vitedia Instance Settings	CC Remote Session	Active Redirections
Sensor				
System Inventory				
FRU Information				
🕍 Logs & Reports 🔹 🔸				
O Settings				
🖵 Remote Control				
Gi Image Redirection				
Power Control				
😨 Locator LED				
P Sign out				

General Settings

This page allows you to enable or disable Local Media support.

VMedia Instance Settings

This page allows you to configure settings for media devices.

Remote Session

This page allows you to change the settings for the remote session.

Active Redirections

This page displays the list of media currently being redirected, and also displays the status and other basic information of each media item.

3.7.8 Network Settings

The Network Settings page allows you to configure the network settings.

ASMB11-iKVM	=		8 🖌 US-English	 ▼ 8x03 O Sync Ø Refresh ▲ admin -
Enneuer.Information 1.1.20 0x17202213.41.09 UTC 0 Host Deline	Network Settings			# Hone - Settings - Network Settings
Quick Links.	Network IP Sectings	V Network Bond Configuration	Drid Configuration	NCSI Device Switch
🖨 Sensor	10			
O System Inventory	O - Sideband Interface (NC-SI)			
FRU Information				
Logs & Reports >				
O Settings				
Remote Control				
Cir Image Redirection				
Power Control				
🖗 Locator LED				
F# Signaut				

Network IP Settings

This page allows you to manage LAN support for the interface.

Network Bond Configuration

This page allows you to enable network bonding for network interfaces.

DNS Configuration

This page allows you to manage DNS settings of the device.

NCSI Device Switch

This page allows you to select whether to use OCP or the On Board LAN for NCSI if both exist on the host system.

Sideband Interface (NC-SI)

This page allows you to manage sideband interface settings.

3.7.9 PAM Order Settings

This page allows you to configure the PAM order for user authentication into the BMC. The list of PAM modules supported in the BMC is displayed. Drag and drop the PAM modules to reorganize their positions in the sequence.

ASMB11-iKVM	=	g	A US-English	• BIOS OSync	C Refresh
Economic Information 1.1.20 0x172022154529UTC © Heat Coline	PAM Order				# Home > Se
Quick Links.	0				
	PAM Authentication Order				
Sensor	1941				
System Inventory	LDAP				
FRU Information	ACTIVE DIRECTORY				
	RADIUS				
 Settings 					
Remote Control	Ei Save				
Gil Image Redirection					
C Locator LED					

3.7.10 Platform Event Filters

Platform Event Filtering (PEF) provides a mechanism for configuring the BMC to take selected actions on event messages that it receives or has internally generated. These actions include operations such as system power-off, system reset, as well as triggering the generation of an alert. A PEF implementation is recommended to provide at least 16 entries in the event filter table. A subset of these entries should be pre-configured for common system failure events, such as over-temperature, power system failure, fan failure events, etc.



Event Filters

This page shows all configured Event filters and available slots. You can modify or add new event filter entries on this page. By default,15 event filter entries are configured out of a maximum of 40 slots.

Alert Policies

This page shows all configured Alert policies and available slots. You can modify or add new alert policy entries on this page. A maximum of 60 slots are available.

LAN Destinations

This page shows all configured LAN destinations and available slots. You can modify or add new LAN destination entries on this page. A maximum of 15 slots are available.

3.7.11 NIC Management

This page allows you to configure NIC controller settings.

ASMB11-iKVM	=		8	US - English	v 0 8105	• Sync	C Refresh	1 admin -
Etromact Information 1.1.20 0x1720221141.09 UTC 1 Hard Online	NIC Management					4.10	ne > Settings >	NIC Management
QuickLinks. •	() NRC Controller Information							
Sensor								
O System Inventory								
 FRU Information 								
Lags & Reports >								
O Settings								
Remote Control								
Cit Image Redirection								
Power Control								
Cocator LED								
F# Sign out								

3.7.12 Services

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

ASMB11-iKVM	=					📽 🛦 US-English 🔹 0 8105	♦ Sync 🖸 Refresh 💄 admin •
Emmer: Information 1.1.20 Oct 7 2022 11:41:20 UTC 0 Heat Online	Services						# Home - Settings - Services
Quick Links.	Service 0	Status 0	interfaces 0	Secure Port 0	Timeout Ø	Naximum Sessions 0	
d Dashboard	web	Active	both	44)	1800	20	= /
A Sensor	kom	Active	both	443	N/A	4	- 1
 System Inventory 	cd-media	Active	both	443	N/A	1	- 2
FRU Information	hd-media	Active	both	443	N/A	1	- 2
Lega & Reports	ssh	Active	NA	22	600	NA	- 2
Secondary							
Gi Image Redirection							
Power Centrol							
😵 Locator LED							
lle Signout							

3.7.13 SMTP Settings

The SMTP page allows you to configure the SMTP mail server.

ASMB11-iKVM	=
Econocciabionation 1.1.20 Oct 7 2022 11:41:20 UTC 9 Heat Chine	SMTP Settings
Quick Links.	
d Dashboard	LAN Interface
Sensor	DM_LANI
O System Inventory	Sender Email ID
FRU Information	
Wilson & Departs >	Primary SMTP Support
A fertime	Primary Server Name
V samp	
Control	Primary Server IP
Cir Image Redirection	
Power Control	Primary SMTP port
😨 Locator LED	25
🗚 Maintenance	Primary Secure SMTP port
P+ Sign out	400
	Primary SMTP Authentication
	Primary Username
	Dimoutsmand
	Print Preserve
	Primary SMTP SSUTLS Enable
	Primary SMTP STARTTLS Enable

3.7.14 SSL Settings

The Secure Sockets Layer protocol was created by Netscape to ensure secure transactions between web servers and browsers. The protocol uses a third party, a Certificate Authority (CA), to identify one or both ends of the transactions.

ASMB11-iKVM	=		🖉 🛦 US-English	v 08005 ¢Sync ☎Refresh 🛓 admin •
Econoccideconation 11.30 Oct 7 2022 13:41:09 VTC In Heat Online	SSL Settings			d Home > Settings > 50c Settings
Quick Links.		۲.	±.	
+ Dashboard	View SSL certificate	Generate SSL certificate	Upload SSL certificate	
💩 Sensor				
System Inventory				
FRU Information				
lali Logi & Reports				
O Settings				
Remote Control				
G Image Redirection				
O Power Control				
Constant LED				
t o Sign out				

View SSL Certificate

This page displays the basic information about the uploaded SSL certificate.

Generate SSL Certificate

This page allows you to create an SSL certificate.

Upload SSL Certificate

This page allows you to upload a certificates and private keys.

3.7.15 System Firewall

This page allows you to create and manage firewalls on the BMC.

isn I admin -
tings > SystemPrevail

General Firewall Settings

This page allows you to create and manage existing general firewall settings.

IP Firewall Rules

This page allows you to create and manage existing firewall settings based on IP.

Port Firewall Rules

This page allows you to create and manage existing firewall settings based on ports.

3.7.16 User Management

The User Management page allows you to view the current list of user slots for the server. You can add a new user and modify or delete existing users.

ASMB11-iKVM	=					S & US-English	× 0	8105 O'Sync C'Refresh 💄 adm	in •
Etemanz Information 1.1.20 0et 72022 1.041.00 VTC 0 Heat Online	User Mana	igement						# Hone > Settings > User Hanage	ent.
Dashboard Sensor System Inventory FRU Information Litt Logs & Reports	۵	Channel 1 1 anonymous (Disobhul) No Access Nord (Westa	4	Channel 1 2 adreln (Enelled) Administrator Kolle (Media)	4	Channel 1 O J Adreinfatrator (Enabled) Administrator	4	Channel I. 4. (Disobled)	
Settings Remote Control Anage Redirection Power Control	4	Chunnel 1 5 (Doubled)	4	Chunnil I 4 (Doobled)	4	Ohannel I 7 (Dhebled)	4	Channel 1 8 (Disobled)	
 V Locaber LED Maintenance Fage out 	*	Channel 1 9 (Disebled)	*	Channel 1 38 (Daabled)	4	Channel I 11 (Dachled)	4	Channel 1 12 (Disobled)	
	4	Channel 1 13 (Duoblied)	4	Channel 1 14 (Dasobied)	.	Channel 1 35 (Disobled)			

3.7.17 Video Recording

This page allows you to customize the video recording settings.

ASMB11-	ikvm	=		🔓 🛦 🛛 US-English	v 08105	O Sync 🖸 Refresh	• nimbe 1
Example 1 1.1.20 Oct 7 2022 1 Heat Only	nbamatian 11.41.09 vTC	Video Recording				ill Home > Settings >	Video Recording
Quick Links.	•						
 Sensor 		Auto viewo secongo	Soc Secrip				
 System Invento Fitti Informatio 	×y n						
M Logs & Reports	· •						
O Settings							
🖵 Remote Contro	·						
Gi Image Redirect	•••						
O Power Control							
C Locator LED							
f# Sign out							

Auto Video Settings

This page allows you to configure the events that will trigger the auto video recording function of the KVM server and display the list of available recorded video files on the BMC.

Sol Settings

The Java SOL page allows you to launch the Java SOL application.

3.7.18 IPMI Interfaces

This page allows you to configure IPMI interfaces on the BMC.

ASMB11-iKVM	=	🔗 🛦 US-Engloh y 0.8005 0.5ync 🕮 Refresh 上 admin
Economic Information 1.1.20 Over 7 2002 11/41/20 UTC © Head Codine	IPMI Interfaces	# Fore - Serge - Internet
Quick Linka.	0	
# Dashboard	1940 Interfaces	
Sensor	D Save	
O System Inventory		
FRU Information		
Left Logs & Reports >		
Settings		
Remote Control		
Cit Image Redirection		
O Power Control		
Cocator LED		
✗ Maintenance		
f# Sign out		

3.7.19 Fan Control

This page allows you to configure fan control settings.

ASMB11-iKVM	=		£	▲ US-English ×	0 BIOS O Sync O Refresh ▲ admin -
Econvert Information 1.1.20 Det 7 2002 11/41/20 UTC # Head Deline	Fan Control				W Home > Settings > Fan Control
Quick Links. •	Auto mode	Custorrized			
a Sensor					
O System Inventory					
Fitu Information					
Lags & Reports					
O Settings					
🖵 Remote Control					
Gi Image Redirection					
O Power Control					
😨 Locator LED					
f# Sign out					

3.7.20 PSU Cold Redundancy

This page allows you to enable or disable PSU cold redundancy.



3.8 Remote Control

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

ASMB11-iKVM	=	B	US - English	v 08	ios <mark>o</mark> sync	C Refresh	• nimbe 1
Econvert Information 1.1.20 Det 7 2022 13:41:09 UTC # Heat Deline	Remote Control Remote MMA 500.					d Home	Remote Control
QuickLinks. *	H5Viewer						
n Sensor	Click here to go to Remote Session Settings.						
System inventory FRU information	(2 Lands till tener						
Int Logs & Reports >							
• Settings	Reset KVM						
Control Remote Control	Q: Beset XMM						
Gi Image Redirection							
 Power Control Locator LED 	JViewer						
	▲ Lands Week						
	Serial Over LAN						
	Ef hande						



You should install JRE on the remote console first before launching JViewer. You can download JRE from https://openjdk.java.net/.

381 **Console Redirection**

The remote console application, which is started using the WebGUI, allows you to control your server's operating system remotely, using the screen, mouse, and keyboard, and to redirect local CD/DVD, floppy diskettes and hard disk/USB thumb drives as if they were connected directly to the server. Click Start KVM to start the redirection session.

Remote KVM - Internet Explorer		- 0 - X
6 http://192.168.0.2/viewer.html	a construction of the second se	
Start KVM		
_		
	When launching the KVM, pop-up blockers should be disabled.	For Internet Explorer.
V	anable the Download File antions in Internet Evalurer acttings	
	enable the Download File options in Internet Explorer settings.	

- When launching the KVM, pop-up blockers should be disabled. For Internet Explorer, enable the Download File options in Internet Explorer settings.
- The KVM defaults to start on launch when you launch via the H5Viewer.

Remote KVM interface



Video

- 1. Pause Video: This option is used for pausing Console Redirection.
- 2. **Resume Video:** This option is used to resume the Console Redirection when the session is paused.
- 3. **Refresh Video:** This option can be used to update the display shown in the Console Redirection window.
- 4. **Host display:** This option allows you to enable or disable local video output on the remote system.
- 5. **Capture Screen:** This option allows you to screen capture the console redirection screen.

Mouse

- 1. **Show Client Cursor:** This menu item can be used to show or hide the local mouse cursor on the remote system.
- 2. Mouse Mode: This menu item allows you to select the mode or type of mouse support.

Options

- 1. Block Privilege Request: Allows you to block privilege requests.
- 2. YUV: Allows you to select the YUV.
- Quality: Allows you to set the quality that ranges from 0 (Best Quality) to 7 (Worst Quality).

Keyboard

Keyboard Layout: This menu item allows you to select the keyboard layout.

Send Keys

- 1. **Hold Down**: These menu items can be used to act as holding down the corresponding key when in Console Redirection.
- 2. **Press and Release:** These menu items can be used to act as a press and release on the corresponding key when in Console Redirection.

Hot Keys

These menu items allow you to make use of hot keys.

Video Record

- 1. Record Video: This option allows you to start recording the console redirection screen.
- 2. **Stop Recording:** This option allows you to stop recording the console redirection screen.
- 3. Record Settings: This menu item allows you to configure the video recording settings.

Power

These menu items allow you to change the power settings. Click the desired option to execute the selected action.

Active Users

This menu will display the currently active users on the server.

Help

This menu will display the help menu.

Browse File

Click this button to add or modify a CD media, then click **Start Media** to start or stop the redirection of a physical DVD/CD-ROM drive and CD image types such as iso.

3.9 Image Redirection

This menu allows you to emulate CD/DVD/Floppy/HDD Images as media drives to host.

ASMB11-iKVM	=		5	A US-English	* 08105	O Sync	C Refresh	1 admin -
Economic Information 1.1.20 0x17202213.41.09 VTC 0 Host Online	Image Redirection						W Home >	Image Redirection
QuickLinks. •	Local images	Renote images						
🚯 Sensor								
O System Inventory								
FRU Information								
Logs & Reports >								
O Settings								
🖵 Remote Control								
Gi Image Redirection								
Power Control								
🗘 Locator LED								
P Signaut								

Local Images

This page allows you to select a local media to emulate to host as media through BMC.

Remote Media

This page allows you to select a remote media to emulate to host as media through BMC.

3.10 Power Control

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

ASMB11-iKVM	=	N	US-English	¥	8105	© Sync	C Refresh	± ad
Ennware: Information 1.1.20 Over 7 2022 13:41:09 UTC # Head Online	Power Control on Host Server						# Home	Poor
Quick Links	Power Actions 📀							
d Dashboard	Host is currently on							
Sereor	Pewer Off							
System inventory	Power On							
FitU Information	Power Cycle							
Lags & Reports >	Hand Reset							
O Settings	ACPI Shutdown							
🖵 Remote Control	O Perform Action							
Gi Image Redirection								
O Power Centrol								
Cocator LED								
✗ Maintenance								
😝 Sign out								

3.11 Locator LED

The Locator LED allows you to perform a chassis identify command control operation. Select the desired LED locator LED behavior, or select the **Identify Interval in Seconds** option and enter the amount of seconds, then click **Perform Action** to execute the selected action.

ASMB11-iKVM	=		8	S A US-English	🛎 🛦 US-English 🔹 🖲	🛎 🛦 US-English 🔹 🖲 BIOS	■ A US-English * 0 8105 0 8yrc	A US-triglish V BROS O Sync O Refresh	▲ US-English v 0 8005 0 Sync ØRefresh 1	S A US-English • 08KOS 05ync CRefresh 1 ad	A US-English Y O \$105 O Sync O Refresh 1 admit	🛎 🛦 US-English 🔹 🛛 8005 🔍 Sync 🚨 Refresh 主 admin
Emmerication 1.1.20 Det 7 2022 11 ALOB VTC 0 Heat Online	Locator LED							4 10	if how -	ii hore - Lo	# Home > Local	if Here > Gostr
Quick Links.	Locator LED Actions											
 Dashboard 	Set Locator LED always OFF											
Sensor	Set Locator LLD always ON											
O System Inventory	tdentify Interval in Seconds											
Fitu information	 Defense Action 											
Laga & Reports >												
• Settings												
C Internet Control												
Power Centrol												
V Locator LED												
f# Sign out												

3.12 Maintenance

The Maintenance menu allows you to select specific configuration items to be preserved or to restore the default configuration for your device.

ASMB11-iKVM	=		S A US-English	 ● BIOS O Sync O Refresh 1 admin -
Econvert Information 1.1.20 Del 7 2022 12:41:20 UTC © Heat Coline	Maintenance			d Home - Haintenance
Quick Links. •	Backup Cerfiguration	Firmware Image Location	Firmware information	Permare Update
Sensor		±	5	2
System Inventory	Preserve Configuration	Restore Configuration	Restore Factory Defaults	System Administrator
O FRU Information				
Lags & Reports >		former frameworks		
O Settings	bos cos opera	system ballooned	alconote optimi	
🖵 Remote Control				
Gi Image Redirection				
O Power Control				
V Locator LED				
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Backup Configuration

This page allows you to select specific configuration items to backup. Check the desired items and click **Download Config** to download the .bak file.

Firmware Image Location

This page allows you to select the image location type.

Firmware Information

This page displays the Build Date, Build Time, and Firmware Version of the active BMC image.

Firmware Update

This page allows you to update the firmware of the device remotely.

Preserve Configuration

This page allows you to select specific configuration items to be preserved when Restore Configuration is initiated.

Restore Configuration

This page allows you to select and upload a .bak file to restore the configuration settings.

Restore Factory Defaults

This page allows you to select configuration items that will be preserved while all other configuration items are restored to their default values. If none are selected, all the configuration items will be restored to their default values.

System Administrator

This page allows you to change the System Administrator settings.

BIOS OOB Update

This page allows you to upload a BIOS file and activate the local media, which will mount the BIOS file into the virtual local storage after host reset. After resetting, the host will detect that a BIOS update is available and search the virtual storage for the BIOS file and perform the BIOS update.



The uploaded BIOS image should be a valid BIOS firmware file (.cap).

System Diagnostics

This page allows you to generate or download system diagnostic debug logs.

BIOS Forced Update

This page allows you to select a BIOS image file and force the BIOS update of the current device through BMC.



The uploaded BIOS image should be a valid BIOS firmware file (.cap).



Appendix

The Appendix shows the location of the LAN ports for server management and BMC connector on server motherboards. This section also presents common problems that you may encounter when installing or using the server management board.

A.1 LAN ports for server management

The ASUS server motherboards that support ASMB11-iKVM come with at least three (3) LAN (RJ-45) ports: one for network connection and others for server management.

For easy identification, the LAN ports for server management are Shared LAN and DM_LAN1 ports. You must use the Shared LAN and DM_LAN1 ports for server management to connect the remote server to the local/central host (direct LAN connection) or to the network hub or router.

Refer to the illustration below to identify the Shared LAN and DM_LAN1 ports for server management on most server motherboards.





Refer to your motherboard's user guide for the location of the Shared LAN and DM_LAN1 ports.

A.2 Troubleshooting



This troubleshooting guide provides answers to some common problems that you may encounter while installing and/or using ASUS ASMB11-iKVM. These problems require simple troubleshooting that you can perform by yourself. Contact Technical Support if you encounter problems not mentioned in this section.

Problem	Solution
The local/central server cannot connect to the ASMB11-iKVM board	 Check if the LAN cable is connected to the LAN port.
	 Make sure that the IP address of both the remote and local/central servers are on the same subnet. (Refer to chapter 2 for details.) Try "ping xxx.xxx.xxx" (remote server IP) on the local/central server and ensure that a ping response is received.
	 Check if the IP source is set to [DHCP]. When set to [DHCP], the IP address cannot be manually configured.
All the SEL (System Event Log) cannot be displayed	The maximum number of SEL events is 3639 events.
The date/time shown in SEL (System Event Log) screen is incorrect	Refer to the Date & Time section to check if the time zone is set up correctly.
ASMB11-iKVM has network connection problems in a firewalled network environment	Ask your network administrator to add the following port numbers to the firewall settings:
	623 (IPMI) (TCP & UDP)
	443 (HTTPs) (TCP)
	443 (iKVM) (TCP)
	443 (Virtual CDROM & HD) (TCP)
	161 (SNMP) (UDP)
The Java redirection screen cannot be displayed normally	Click the Refresh Page button to refresh the redirection screen.



The ASMB Java console only supports the onboard VGA adapter. It may not display properly if other add-on video cards are used.

A.3 Sensor Table

Memory ECC

Sensor No.	Sensor Name	Sensor Type	Sensor Type code	Sensor Value or Event Type	Event Data 3
0xD1(209)	CPU1_ECC1	0x0C	Memory ECC Sensor	Discrete(0x6F) 0x01: Correctable ECC 0x02: Uncorrectable ECC 0x40: Presence detected	0x00: CPU1_DIMM_A1, 0x01: CPU1_DIMM_A2, 0x02: CPU1_DIMM_A3, 0x03: CPU1_DIMM_A4, 0x04: CPU1_DIMM_B1, 0x05: CPU1_DIMM_B2, 0x06: CPU1_DIMM_B3, 0x07: CPU1_DIMM_D2, 0x06: CPU1_DIMM_D3, 0x07: CPU1_DIMM_D2, 0x06: CPU1_DIMM_D3, 0x07: CPU1_DIMM_D2, 0x06: CPU1_DIMM_D3, 0x07: CPU1_DIMM_D2, 0x06: CPU1_DIMM_D3, 0x07: CPU1_DIMM_D2, 0x06: CPU1_DIMM_E3, 0x13: CPU1_DIMM_E4, 0x10: CPU1_DIMM_E3, 0x13: CPU1_DIMM_E4, 0x10: CPU1_DIMM_F3, 0x17: CPU1_DIMM_E4, 0x16: CPU1_DIMM_F3, 0x17: CPU1_DIMM_F4, 0x16: CPU1_DIMM_F3, 0x17: CPU1_DIMM_F4, 0x20: CPU1_DIMM_H1, 0x17: CPU1_DIMM_F4, 0x22: CPU1_DIMM_H3, 0x17: CPU1_DIMM_F4, 0x22: CPU1_DIMM_13, 0x23: CPU1_DIMM_F4, 0x26: CPU1_DIMM_13, 0x23: CPU1_DIMM_F4, 0x26: CPU1_DIMM_53, 0x28: CPU1_DIMM_F4, 0x26: CPU1_DIMM_53, 0x28: CPU1_DIMM_F4, 0x26: CPU1_DIMM_53, 0x28: CPU1_DIMM_14, 0x26: CPU1_DIMM_53, 0x28: CPU1_DIMM_52, 0x26:
0xD4(212)	CPU4_ECC1	0x0C	Memory ECC Sensor	Discrete(0x6F) 0x01: Correctable ECC 0x02: Uncorrectable ECC 0x40: Presence detected	0x00: CPU1_DIMM_A1, 0x01: CPU1_DIMM_A2, 0x02: CPU1_DIMM_A3, 0x03: CPU1_DIMM_A4, 0x04: CPU1_DIMM_B3, 0x07: CPU1_DIMM_B4, 0x06: CPU1_DIMM_B3, 0x07: CPU1_DIMM_B4, 0x06: CPU1_DIMM_C3, 0x06: CPU1_DIMM_C4, 0x04: CPU1_DIMM_C3, 0x06: CPU1_DIMM_C4, 0x04: CPU1_DIMM_C14, 0x00: CPU1_DIMM_C4, 0x01: CPU1_DIMM_E1, 0x10: CPU1_DIMM_E2, 0x10: CPU1_DIMM_E3, 0x13: CPU1_DIMM_E4, 0x10: CPU1_DIMM_F3, 0x17: CPU1_DIMM_F4, 0x16: CPU1_DIMM_F3, 0x17: CPU1_DIMM_F4, 0x26: CPU1_DIMM_F3, 0x27: CPU1_DIMM_F4, 0x26: CPU1_DIMM_F3, 0x27: CPU1_DIMM_F4, 0x26: CPU1_DIMM_F4, 0x29: CPU1_DIMM_F4, 0x26: CPU1_DIMM_F4, 0x29: CPU1_DIMM_F4, 0x26: CPU1_DIMM_F4, 0x29: CPU1_DIMM_F4, 0x26: CPU1_DIMM_F4, 0x29: CPU1_DIMM_F4, 0x20: CPU2_DIMM_F4, 0x29: CPU1_DIMM_F4, 0x20: CPU2_DIMM_F4, 0x39: CPU2_DIMM_F4, 0x20: CPU2_DIMM_F4, 0x39: CPU4_DIMM_F4, 0x20: CPU2_DIMM_F4, 0x39: CPU4_DIMM_F4, 0x20:

Sensor No.	Sensor Name	Sensor Type	Sensor Type code	Sensor Value or Event Type	Event Data 3
0xDB	Memory Train_ERR	0xC5	OEM Memory Sensor	Discrete(0x6F) 0x01: Memory Train Error 0x00: Normal	0x00: CPU1_DIMM_A1, 0x01: CPU1_DIMM_A2, 0x02: CPU1_DIMM_A3, 0x03: CPU1_DIMM_A4, 0x04: CPU1_DIMM_B1, 0x05: CPU1_DIMM_B2, 0x06: CPU1_DIMM_B1, 0x05: CPU1_DIMM_C4, 0x08: CPU1_DIMM_C3, 0x08: CPU1_DIMM_C4, 0x08: CPU1_DIMM_C3, 0x08: CPU1_DIMM_C4, 0x00: CPU1_DIMM_B1, 0x05: CPU1_DIMM_D4, 0x00: CPU1_DIMM_B1, 0x05: CPU1_DIMM_D4, 0x10: CPU1_DIMM_F1, 0x15: CPU1_DIMM_E2, 0x10: CPU1_DIMM_F1, 0x15: CPU1_DIMM_F4, 0x14: CPU1_DIMM_F3, 0x17: CPU1_DIMM_F4, 0x14: CPU1_DIMM_F3, 0x17: CPU1_DIMM_F4, 0x14: CPU1_DIMM_53, 0x16: CPU1_DIMM_F4, 0x14: CPU1_DIMM_53, 0x17: CPU1_DIMM_F4, 0x14: CPU1_DIMM_53, 0x17: CPU1_DIMM_F4, 0x16: CPU1_DIMM_53, 0x27: CPU1_DIMM_F4, 0x16: CPU1_DIMM_10, 0x25: CPU1_DIMM_44, 0x20: CPU1_DIMM_13, 0x27: CPU1_DIMM_44, 0x26: CPU1_DIMM_53, 0x27: CPU1_DIMM_54, 0x26: CPU1_DIMM_53, 0x27: CPU1_DIMM_54, 0x26: CPU1_DIMM_53, 0x27: CPU1_DIMM_54, 0x26: CPU1_DIMM_55, 0x27: CPU1_DIMM_55, 0x27:

Backplane HD

Sensor No.	Sensor Name	Sensor Type	Sensor Type Code	Sensor Value or Event Type
0xB2(178)	Backplane1 HD01	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xB3(179)	Backplane1 HD02	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xB4(180)	Backplane1 HD03	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xB5(181)	Backplane1 HD04	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xB6(182)	Backplane1 HD05	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xB7(183)	Backplane1 HD06	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xB8(184)	Backplane1 HD07	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xB9(185)	Backplane1 HD08	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xBA(186)	Backplane1 HD09	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xBB(187)	Backplane1 HD10	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xBC(188)	Backplane1 HD11	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xBD(189)	Backplane1 HD12	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xBE(190)	Backplane1 HD13	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xBF(191)	Backplane1 HD14	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC0(192)	Backplane1 HD15	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC1(193)	Backplane1 HD16	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress

Sensor No.	Sensor Name	Sensor Type	Sensor Type Code	Sensor Value or Event Type
0xC2(194)	Backplane1 HD17	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC3(195)	Backplane1 HD18	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC4(196)	Backplane1 HD19	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC5(197)	Backplane1 HD20	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC6(198)	Backplane1 HD21	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC7(199)	Backplane1 HD22	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC8(200)	Backplane1 HD23	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xC9(201)	Backplane1 HD24	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xCA(202)	Backplane2 HD01	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xCB(203)	Backplane2 HD02	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xCC(204)	Backplane2 HD03	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xCD(205)	Backplane2 HD04	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xCE(206)	Backplane2 HD05	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xCF(207)	Backplane2 HD06	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xD0(208)	Backplane2 HD07	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress
0xD5(213)	Backplane2 HD08	Drive Slot (Bay)	0x0D	0x00 : N/A 0x01 : Drive Presence 0x03 : Drive Fault 0x81 : Rebuild/Remap in progress

Power Supply

Sensor No.	Sensor Name	Sensor Type	Sensor Type Code	Sensor Value or Event Type
0xDF(223)	PSU1 Power In	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low
0xE0(224)	PSU1 Over Temp	0x01	Temperature	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xE1(225)	PSU1 AC Lost	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x08: Power Supply input lost (AC/DC)
0xE2(226)	PSU1 Slow FAN1	0x04	FAN	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xE3(227)	PSU1 PWR Detect	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x02: Power Supply Failure Detected
0x5A(90)	PSU1 Power Out	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high
0x5B(91)	PSU1 Over Curr	0x03	Current	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xE4(228)	PSU2 Power In	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low
0xE5(229)	PSU2 Over Temp	0x01	Temperature	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xE6(230)	PSU2 AC Lost	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x08: Power Supply input lost (AC/DC)
0xE7(231)	PSU2 Slow FAN1	0x04	FAN	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xE8(232)	PSU2 PWR Detect	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x02: Power Supply Failure Detected
0x5D(93)	PSU2 Power Out	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high
0x5E(94)	PSU2 Over Curr	0x03	Current	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xE9(233)	PSU3 Power In	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low
0xEA(234)	PSU3 Over Temp	0x01	Temperature	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable

Sensor No.	Sensor Name	Sensor Type	Sensor Type Code	Sensor Value or Event Type
0xEB(235)	PSU3 AC Lost	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x08: Power Supply input lost (AC/DC)
0xEC(236)	PSU3 Slow FAN1	0x04	FAN	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xED(237)	PSU3 PWR Detect	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x02: Power Supply Failure Detected
0x58(88)	PSU3 Power Out	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high
0x59(89)	PSU3 Over Curr	0x03	Current	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xEE(238)	PSU4 Power In	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low
0xEF(239)	PSU4 Over Temp	0x01	Temperature	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xF0(240)	PSU4 AC Lost	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x08: Power Supply input lost (AC/DC)
0xF1(241)	PSU4 Slow FAN1	0x04	FAN	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable
0xF2(242)	PSU4 PWR Detect	0x08	Power Supply	Discrete(0x6F) 0x01: Presence Detected 0x02: Power Supply Failure Detected
0x63(99)	PSU4 Power Out	0x08	Power Supply	Threshold(0x01) Upper Non-Critical - going high Upper Critical - going high
0x64(100)	PSU4 Over Curr	0x03	Current	Discrete(0x07) 0x01: Transition to OK 0x10: Transition to Non-Critical from more severe 0x40: Transition to Non-Recoverable

Hardware Monitor

1. Temperature

0	Courses Norma	Event			
Sensor No.	Sensor Name	Assertion	Deassertion		
0x01(1)	CPU1 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x02(2)	CPU2 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x03(3)	CPU3 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x04(4)	CPU4 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x05(5)	TR1 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x06(6)	TR2 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x07(7)	TR3 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x08(8)	TR4 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x09(9)	TR5 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x0A(10)	CPU1_DIMMA1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x0B(11)	CPU1_DIMMA2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x0C(12)	CPU1_DIMMB1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x0D(13)	CPU1_DIMMB2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x0E(14)	CPU1_DIMMC1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x0F(15)	CPU1_DIMMC2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x10(16)	CPU1_DIMMD1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x11(17)	CPU1_DIMMD2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x12(18)	CPU1_DIMME1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x13(19)	CPU1_DIMME2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x14(20)	CPU1_DIMMF1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x15(21)	CPU1_DIMMF2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x16(22)	CPU1_DIMMG1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x17(23)	CPU1_DIMMG2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x18(24)	CPU1_DIMMH1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x19(25)	CPU1_DIMMH2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x1B(27)	CPU1_DIMMI1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		

Concer No.	Sensor Name	Event			
Sensor No.		Assertion	Deassertion		
0x1C(28)	CPU1_DIMMI2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x1D(29)	CPU1_DIMMJ1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x1E(30)	CPU1_DIMMJ2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x1F(31)	CPU1_DIMMK1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x20(32)	CPU1_DIMMK2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x21(33)	CPU1_DIMML1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x22(34)	CPU1_DIMML2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x23(35)	CPU2_DIMMA1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x24(36)	CPU2_DIMMA2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x25(37)	CPU2_DIMMB1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x26(38)	CPU2_DIMMB2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x27(39)	CPU2_DIMMC1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x28(40)	CPU2_DIMMC2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x29(41)	CPU2_DIMMD1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x2A(42)	CPU2_DIMMD2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x2B(43)	CPU2_DIMME1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x2C(44)	CPU2_DIMME2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x2D(45)	CPU2_DIMMF1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x2E(46)	CPU2_DIMMF2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x2F(47)	CPU2_DIMMG1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x30(48)	CPU2_DIMMG2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x31(49)	CPU2_DIMMH1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x32(50)	CPU2_DIMMH2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x33(51)	TR6 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x34(52)	TR7 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x35(53)	TR8 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x36(54)	TR9 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x37(55)	TR10 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		

Courses No.	Company Norma	Event			
Sensor No.	Sensor Name	Assertion	Deassertion		
0x38(56)	TR11 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x39(57)	TR12 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x3A(58)	TR13 Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x3B(59)	CPU2_DIMMI1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x3C(60)	CPU2_DIMMI2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x3D(61)	CPU2_DIMMJ1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x3E(62)	CPU2_DIMMJ2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x3F(63)	CPU2_DIMMK1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x40(64)	CPU2_DIMMK2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x41(65)	CPU2_DIMML1_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x42(66)	CPU2_DIMML2_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x43(67)	Riser01 Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x44(68)	Riser02 Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x45(69)	PCH Temperature	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x46(70)	+48V Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x57(87)	PCIE_Inlet_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x61(97)	Outlet1 Temp / CPU1_Inlet_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		
0x62(98)	Outlet2 Temp / CPU1_Outlet_Temp	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high		

2. Voltage

0	Sensor Name	Ev	Event		
Sensor No.		Assertion	Deassertion		
0x66(102)	+VCORE1 / PVCCIN_CPU1 / +VCORE0_CPU1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x67(103)	+VCORE2 / PVCCIN_CPU2 / +VCORE0_CPU2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x68(104)	+VDDQ_ABCD_CPU1 / +VCCD_HV1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x69(105)	+VDDQ_EFGH_CPU1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		

Courses No.	Sanaar Nama	Event			
Sensor No.	Sensor Name	Assertion	Deassertion		
0x6A(106)	+VDDQ_ABCD_CPU2 / +VCCD_HV2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x6B(107)	+VDDQ_EFGH_CPU2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x6C(108)	+VDDIO_ABCD_CPU1 / +VDDIO_ABCD / +VDDIO_CPU1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x6D(109)	+VDDIO_EFGH_CPU1 / +VDDIO_EFGH	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x6E(110)	+VDDIO_ABCD_CPU2 / +VDDIO_CPU2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x6F(111)	+VDDIO_EFGH_CPU2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x70(112)	+VCCIO1 / +VCCINFAON1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x71(113)	+VCCIO2 / +VCCINFAON2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x72(114)	+VSOC1 / +VSOC_CPU1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x73(115)	+VSOC2 / +VSOC_CPU2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x74(116)	+12V	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x75(117)	+5V / +5V_1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x76(118)	+3.3V	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x77(119)	+5VSB	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x78(120)	+3VSB / +3.3VSB / +3V_AUX	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		
0x79(121)	VBAT / +VBAT	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low		

O-mark Na	Sensor Name	Event		
Sensor No.		Assertion	Deassertion	
0x7A(122)	+VCCFAEHV_FIVRA1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	
0x7B(123)	+VCCFAEHV_FIVRA2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	
0x7C(124)	+VCORE1_CPU1	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	
0x7D(125)	+VCORE1_CPU2	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	Upper Non-critical - going high Upper Critical - going high Lower Non-critical - going low Lower Critical - going low	

3. Fan

Company No.	Concern Norma		Event				
Sensor No.	Sensor Name	Assertion	Deassertion				
0x89(137)	CPU_FAN1 / CPU1_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x8A(138)	CPU_FAN1 / CPU1_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x8B(139)	FRNT_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x8C(140)	FRNT_FAN2	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x8D(141)	FRNT_FAN3	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x8E(142)	FRNT_FAN4	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x8F(143)	FRNT_FAN5	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x90(144)	FRNT_FAN6	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x91(145)	FRNT_FAN7	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x92(146)	FRNT_FAN8	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x93(147)	FRNT_FAN9	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x94(148)	GPU_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x95(149)	GPU_FAN2	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x96(150)	GPU_FAN3	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x97(151)	GPU_FAN4	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x98(152)	GPU_FAN5	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x99(153)	GPU_FAN6	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
Sensor No.	Sensor Name	Event					
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		Assertion	Deassertion				
0x9A(154)	SYS_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x9B(155)	SYS_FAN2	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x9C(156)	SYS_FAN3	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x9D(157)	SYS_FAN4	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x9E(158)	REAR_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0x9F(159)	REAR_FAN2	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA0(160)	BP_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA1(161)	BP_FAN2	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA2(162)	LC_PUMP1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA3(163)	LC_PUMP2	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA4(164)	CPU2_FAN1	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA5(165)	CPU2_FAN2	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA6(166)	SYS_FAN7	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA7(167)	LC_PUMP3	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA8(168)	LC_PUMP4	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xA9(169)	NV_FAN1_F	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xAA(170)	NV_FAN1_R	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xAB(171)	SYS_FAN5	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xAC(172)	SYS_FAN6	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xAD(173)	NV_FAN2_F	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xAE(174)	NV_FAN2_R	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xAF(175)	LC_PUMP5	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xB0(176)	LC_PUMP6	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xB1(177)	GPU_FAN7	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				
0xDE(222)	GPU_FAN8	Upper Non-critical - going high Upper Critical - going high	Upper Non-critical - going high Upper Critical - going high				

CPU CATERR

Sensor No.	Sensor Name	Sensor Type	Sensor Type Code	Sensor Value or Event Type
0xFD(253)	CPU_CATERR	0x08	Processor	Discrete(0x6F) 0x01: IERR 0x00: Normal

Intrusion

Sensor No.	Sensor Name	Sensor Type	Sensor Type Code	Sensor Value or Event Type
0xFC(252)	Chassis Intrusion	Physical Security (Chassis Intrusion)	0x05	0x01: Chassis Intrusion 0x00: Normal

Simplified EU Declaration of Conformity

English ASUSTeK Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of related Directives. Full text of EU declaration of conformity is available at: www.asus.com/support

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Suomi ASUSTeK Computer Inc. ilmoittaa täten, että tämä laite on asiaankuuluvien direktiivien olennaisten vaatimusten ja muiden tätä koskevien säädösten mukainen. EU-yhdenmukaisuusilmoituksen koko teksti on luettavissa osoitteessa: <u>www.asus.com/support</u>

Ελληνικά Με το παρόν, η AsusTek Computer Inc. δηλώνει ότι αυτή η συσκευή συμμορφώνεται με τις θεμελιώδεις απαιτήσεις και άλλες σχετικές διατάξεις των Οδηγιών της ΕΕ. Το πλήρες κείμενο της δήλωσης συμβατότητας είναι διαθέσιμο στη διεύθυνση: <u>www.sus.com/support</u>

Magyar Az ASUSTeK Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel a kapcsolódó Irányelvek lényeges követelményeinek és egyéb vonatkozó rendelkezéseinek. Az EU megfelelőségi nyilatkozat teljes szövege innen letőlthető: <u>www.asus.com/support</u> Latviski ASUSTeK Computer Inc. ar šo paziņo, ka šī ierice atbilst saistīto Direktīvu būtiskajām prasībām un citiem citiem saistošajiem nosacījumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: <u>www.asus.com/support</u> Lietuvių "ASUSTeK Computer Inc." šiuo tvirtina, kad šis įrenginys attitinka pagrindinius reikalavimus ir kitas svarbias susijusių direktyvų nuostatas. Visą

ES attilities deklaracijos tekstą galima rasti: <u>www.asus.com/support</u> Norsk ASUSTeK Computer Inc. erklærer herved at denne enheten er i samsar med hovedsaklige karvo og andre relevante forskrifter i relaterte direktiver. Fullstendig tekst for EU-samsvarserklæringen finnes på: www.asus.com/sunport

Polski Firma ASUSTeK Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwymi postanowieniami powiązanych dyrektyw. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem: wywasus.com/support

Português A ASUSTeX Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes das Diretivas relacionadas. Texto integral da declaração da UE disponível em: www.asus.com/support

Română ASUSTEK Computer Inc. declară că acest dispozitiv se conformează cerințelor esențiale și altor prevederi relevante ale directivelor conexe. Textul complet al declarației de conformitate a Uniunii Europene se găsește la: <u>www.asus.com/support</u>

Srpski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj u saglasnosti sa osnovnim zahtevima i drugim relevantnim odredbama povezanih Direktiva. Pun tekst EU deklaracije o usaglašenosti je dostupan da adresi: <u>www.asus.com/support</u>

Slovensky Spoločnosť ASUSTeK Computer Inc. týmto vyhlasuje, že toto zariadenie vyhovuje základným požiadavkám a ostatým prislušným ustanoveniam príslušných smernic. Celý text vyhlásenia o zhode pre štáty EÚ je dostupný na adrese: <u>www.asus.com/support</u>

Slovenščina ASUSTEK Computer Inc. izjavlja, da je ta naprava skladna z bistvenimi zahtevami in drugimi ustreznimi določbami povezanih direktiv. Celotno besedilo EU-izjave o skladnosti je na voljo na spletnem mestu: www.asu.com/support

Español Por la presente, ASUSTeK Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de las directivas relacionadas. El texto completo de la declaración de la UE de conformidad está disponible en: <u>www.asus.com/support</u>

Svenska ASUSTeK Computer Inc. förklarar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta föreskrifter i relaterade direktiv. Fulltext av EU-försäkran om överensstämmelse finns på: <u>www.asus.com/support</u>

Українська ASUSTek Computer Inc. заявляе, що цей пристрій відповідає основним вимогам та іншим відповідним положенням відповідних Директив. Повний текст декларації відповідності стандартам ЄС доступний на: <u>www.asus.com/support</u>

Türkçe AsusTek Computer Inc., bu aygıtın temel gereksinimlerle ve ilişkili Yonergelerin diğer ilgili koşullarıyla uyumlu olduğunu beyan eder. AB uygunluk bildiriminin tam metni şu adreste bulunabilir: www.asus.com/support

Bosanski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj usklađen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o usklađenosti dostupan je na: <u>www.asus.com/support</u>

Simplified UKCA Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of The Radio Equipment Regulations 2017 (S.I. 2017/1206). Full text of UKCA declaration of conformity is available at <u>https://www.asus.com/support/</u>.

Service and Support

Visit our multi-language website at https://www.asus.com/support.

