

## Supermicro SBM-CMM-001

# Supermicro Chassis Management Module (SBM-CMM-001) User Manual

Model: SBM-CMM-001 | Brand: Supermicro

## 1. INTRODUCTION

The Supermicro SBM-CMM-001 Chassis Management Module is designed to provide comprehensive remote management and monitoring capabilities for SuperBlade server systems. This module integrates advanced features to ensure efficient operation and maintenance of your server infrastructure.

Key features include:

- Remotely manage and monitor server blades, power supplies, cooling fans, and networking switches.
- IPMI 2.0 compliant, with KVM over LAN / KVM over IP for remote console access.
- Serial over LAN (SOL) for remote serial port redirection.
- Virtual Media Over LAN (Virtual USB Floppy/CD and Drive Redirection) for remote media access.
- LAN Alert-SNMP Trap for network-based event notifications.

## 2. SETUP AND INSTALLATION

This section outlines the steps for installing and initially configuring your SBM-CMM-001 module within a SuperBlade chassis.

### 2.1 Physical Installation

1. **Power Off:** Ensure the SuperBlade chassis is completely powered off and disconnected from all power sources before proceeding.
2. **Locate Slot:** Identify the designated Chassis Management Module slot in your SuperBlade chassis. Refer to your SuperBlade chassis manual for exact slot location.
3. **Insert Module:** Carefully slide the SBM-CMM-001 module into the designated slot until it is firmly seated. Ensure the connectors align properly.
4. **Secure Module:** Secure the module using any retaining screws or latches provided by the chassis design.
5. **Connect Network:** Connect an Ethernet cable from your network to the LAN port on the SBM-CMM-001 module.

6. **Power On:** Reconnect power to the SuperBlade chassis and power it on. The SBM-CMM-001 module will initialize automatically.

## 2.2 Initial Network Configuration

Upon first boot, the SBM-CMM-001 may obtain an IP address via DHCP. If DHCP is not available or a static IP is required, you will need to access the module's console or use a discovery tool provided by Supermicro.

- **Default Access:** Consult the Supermicro documentation for the default IP address or method to discover the module's IP address on your network.
- **Web Interface:** Once the IP address is known, access the module's web-based management interface via a web browser.
- **Login:** Use the default username and password (refer to Supermicro documentation for defaults) to log in. It is highly recommended to change default credentials immediately after initial login.



Figure 1: Supermicro SBM-CMM-001 Chassis Management Module showing its various ports and form factor.

## 3. OPERATION

The SBM-CMM-001 provides a robust set of tools for managing your SuperBlade environment. This section covers the primary operational aspects.

### 3.1 Web-Based Management Interface

The primary method for managing the SBM-CMM-001 is through its intuitive web interface. This interface allows you to:

- Monitor the status of server blades, power supplies, and cooling fans.
- Access KVM over IP for remote console control of individual blades.
- Perform power control operations (power on, off, reset) for server blades.

- Configure network settings, user accounts, and security parameters.
- Manage virtual media for remote OS installation or diagnostics.
- View system event logs and sensor readings.

## 3.2 KVM over IP

The KVM over IP feature allows you to remotely access the video, keyboard, and mouse of any server blade within the chassis. This is crucial for operating systems installation, BIOS configuration, and troubleshooting without physical presence.

- Navigate to the KVM section in the web interface.
- Select the desired server blade.
- Launch the KVM console viewer (typically a Java or HTML5 application).

## 3.3 Virtual Media

Virtual Media allows you to redirect local CD/DVD-ROM drives or ISO image files from your client machine to a remote server blade. This is invaluable for installing operating systems or running diagnostic tools.

- Access the Virtual Media section in the web interface.
- Select the type of media to redirect (e.g., CD/DVD, Floppy, ISO image).
- Browse for the local media or ISO file and connect it to the remote server.

## 4. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your SBM-CMM-001 module.

### 4.1 Firmware Updates

Supermicro periodically releases firmware updates to improve performance, add features, or address security vulnerabilities. It is recommended to keep your module's firmware up to date.

- Visit the official Supermicro website ([www.supermicro.com](http://www.supermicro.com)) to download the latest firmware for the SBM-CMM-001.
- Follow the instructions provided with the firmware package for the update process, typically performed through the web interface.
- **Caution:** Do not interrupt the power supply during a firmware update, as this may damage the module.

### 4.2 Cleaning

Keep the module and its surrounding area free from dust and debris to ensure proper airflow and prevent overheating.

- Use a soft, dry cloth to wipe the exterior of the module.
- For internal cleaning (if necessary and only by qualified personnel), use compressed air to remove dust from vents and components.

## 5. TROUBLESHOOTING

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This section provides solutions to common issues you might encounter with your SBM-CMM-001 module.

### 5.1 Module Not Responding

- **Check Power:** Ensure the SuperBlade chassis is powered on and the module is receiving power.

- **Reseat Module:** Power off the chassis, then carefully remove and reinsert the SBM-CMM-001 module to ensure it is properly seated.
- **Network Connectivity:** Verify that the Ethernet cable is securely connected and that your network is functioning correctly. Try pinging the module's IP address.
- **Reset Module:** If accessible, perform a soft reset of the module via the chassis management interface or by temporarily removing power.

## 5.2 KVM Console Not Displaying

- **Browser Compatibility:** Ensure your web browser is compatible with the KVM viewer. Some older modules may require Java.
- **Firewall Settings:** Check if your local firewall or network firewall is blocking the necessary ports for KVM communication.
- **Server Blade Status:** Verify that the target server blade is powered on and functioning correctly.
- **Firmware:** Ensure the SBM-CMM-001 firmware is up to date.

## 6. SPECIFICATIONS

Detailed technical specifications for the Supermicro SBM-CMM-001 Chassis Management Module.

Feature	Description
Brand	Supermicro
Model Number	SBM-CMM-001
Operation Mode	KVM
Connector Type	USB
Controller Type	Remote Management Controller
Control Method	Remote
Connectivity Protocol	Ethernet
Item Dimensions (L x W x H)	17.2 x 1.7 x 14.5 inches
Item Weight	2.2 pounds
Date First Available	October 1, 2007
UPC	672042016112, 672042017928

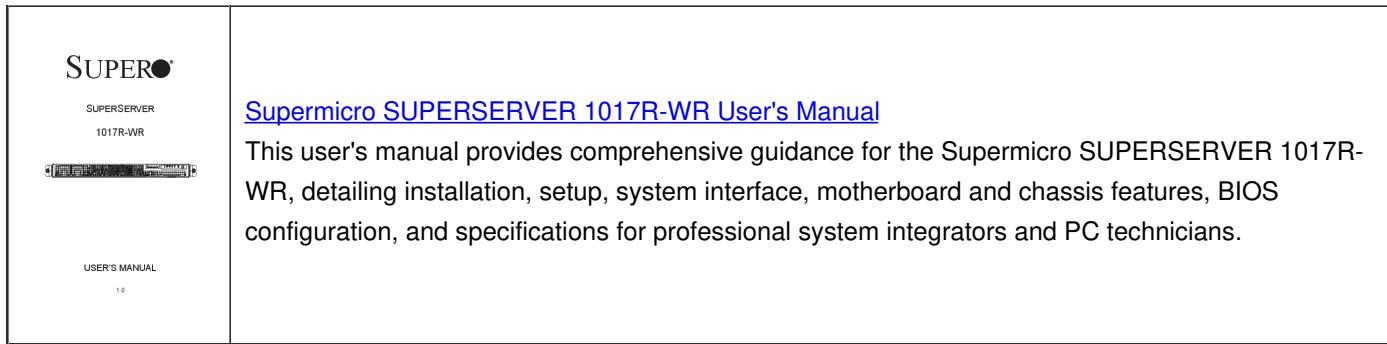
## 7. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Supermicro website or contact their customer service directly.

- **Official Website:** [www.supermicro.com](http://www.supermicro.com)
- **Support Resources:** The Supermicro website provides drivers, firmware, FAQs, and contact information for technical assistance.

## Related Documents - SBM-CMM-001

	<p><a href="#">Supermicro X11DPT-B Motherboard Technical Specifications</a></p> <p>Detailed technical specifications for the Supermicro X11DPT-B motherboard, including processor support, memory capacity, expansion slots, and management features.</p>
	<p><a href="#">Supermicro SuperChassis 813MTQ-350CB: 1U Server Chassis Specifications and Components</a></p> <p>Detailed specifications, key features, and component list for the Supermicro SuperChassis 813MTQ-350CB, a 1U server chassis designed for high performance and reliability. Includes compatibility information for motherboards and servers.</p>
	<p><a href="#">Supermicro BMC Baseboard Management Controller User's Manual</a></p> <p>This user's manual guides the configuration and management of Supermicro's ASPEED AST2600 Baseboard Management Controller (BMC) for X12 and H12 series motherboards, covering setup, features, maintenance, and BIOS settings.</p>
	<p><a href="#">Supermicro SC745 Chassis User's Manual</a></p> <p>User's manual for the Supermicro SC745 chassis series, detailing its features, installation, and maintenance. Covers system overview, rack mount installation, and component installation.</p>
	<p><a href="#">Supermicro SuperWorkstation 7046A-3/7046A-T User's Manual</a></p> <p>Comprehensive user manual for the Supermicro SuperWorkstation 7046A-3 and 7046A-T, detailing installation, setup, serverboard and chassis features, system interface, BIOS configuration, and technical specifications for professional system integrators and technicians.</p>



### [Supermicro SUPERSERVER 1017R-WR User's Manual](#)

This user's manual provides comprehensive guidance for the Supermicro SUPERSERVER 1017R-WR, detailing installation, setup, system interface, motherboard and chassis features, BIOS configuration, and specifications for professional system integrators and PC technicians.