MegaRAC Management Solutions Overview

SSI Open Blade Architecture, ATCA and IPMI Solutions from AMI

Bladebrix - Blade Solutions
AMI offers all the firmware components for implementing the Open Blade Architecture System Management (OBSM) Specification from the Server System Infrastructure (SSI) Forum, an industry group promoting design guidelines for blade chassis parts and interfaces.

Chassis Management
AMI’s MegaRAC® CM is an advanced chassis management solution that will be fully compliant with OBSM. The firmware provides health monitoring and management, via a web-based GUI, of all the necessary components inside a blade server chassis: processor and compute blades, I/O modules, backplane or midplane and power supplies. Active-passive failover configuration is an option.

Blade Management
The MegaRAC® SP service processor solution provides sophisticated remote manageability of servers and blades featuring an Integrated Management Controller (IMC), or highly integrated Baseboard Management Controller (BMC). The firmware implements high-speed KVM redirection, virtual media for remote software installation and IPMI 2.0 based monitoring and management. MegaRAC® SP highly portable firmware architecture is based on the DMTF Common Information Model (CIM) and supports the latest standards in manageability, such as SMASH/CLP and WSMAN.

The MegaRAC® PM provides server text access with a complete implementation of the Intelligent Platform Management Interface specification. IPMI defines a hardware and software sub-system performing platform monitoring and management independently from the main processor. Management tasks are executed by a specialized Baseboard Management Controller (BMC), that periodically polls system health variables such as temperature, fans, voltage, power supplies and chassis intrusion. MegaRAC® PM provides Serial over LAN for text access to the server, but can also support KVM redirection as an extension. Both MegaRAC® PM and SP can utilize AMI’s PMCP, a utility that helps platform development with a drag-and-drop method for the placement of sensor code. With PMCP sensor code is added once and utilized many times at each porting process.

Centralized Management Console
MegaRAC® XMS is a powerful tool for web-based centralized management of multiple blade chassis placed in one or more locations. KVMSViewer allows for simultaneous redirection of multiple servers, a powerful feature. The software handles the event logs and alerts sent by all servers managed within an IT department. Administrators can remotely access and control multiple servers, view events or monitor multiple sensors at any time from a single location.
MegaRAC® Development Studio

All the Bladebrix components -MegaRAC® CM, MegaRAC® SP and MegaRAC® XMS- are highly customizable and extensible with MegaRAC® Development Studio, a tool for adding easily OEM's Intellectual Property and distinctive look-and-feel. MegaRAC® DS is a graphical Integrated Development Environment for remote management used to develop, enrich and customize the management structure and visual interface of servers integrating MagaRAC® latest generation products. MegaRAC® DS is organized as a set of eclipse plug-ins compliant with the CIM Model and other DMTF standards such as SMASH and WS-Man.

Other Server Solutions

MegaRAC® MG9091C

MegaRAC® MG9091C is a high performance, single chip that combines the functions of a Service Processor with that of a Baseboard Management Controller (BMC). The chip supports IPMI 2.0 and KVM/IP based on AMI's patent pending AAVICA-II video redirection technology and performs all the IPMI 2.0 compliant baseboard management tasks. As a Service Processor, MG9091B allows video redirection using KVM over LAN or Serial over LAN. The SOC can run an embedded web-server. MegaRAC® MG9091B provides a command line interface according to the DMTF SMASH/CLP specification and an SNMP MIB.

MegaRAC® G4

This powerful PCI card can be used in any server with a free PCI slot for sophisticated remote management. Provides out-of-band, lights-out manageability for BIOS-level system access and control, even when the OS is unavailable or the system is powered down. A 100% OS independent solution, G4 features high quality, high performance KVM redirection over TCP/IP. MegaRAC® G4 does not require any drivers or agents to be installed at the managed server.

MegaRAC® M300V

The MegaRAC M300V is a full featured OPMA-compliant service processor daughter card based on the MegaRAC® MG9091 (Verbena II) System on Chip. The card provides MegaRAC® high-performance KVM remote management, with text and graphical redirection, in a 2.50’x 2.75’ form factor.