# MegaRAC® CM


American Megatrends

## MegaRAC® CM: Chassis Management Firmware Solution
### Compliant with the Open Blade Architecture System Management Specification

### Highlights

- Compliant with Open Blade Architecture System Management Specification from SSI Forum

- Optional Active/Passive fail-over configuration

- Blade element discovery, health monitoring & management (power cycle, blade presence, state change events)

- Asset tracking and management for all chassis product data and FRUs

- LED, LCD display and components control

- Consolidated Chassis Event Log (CEL)

- Common console for remote KVM (µKVM) and media (vMedia) for all blades

- Serial Over LAN (SOL) proxy service for all compute blades and I/O modules

- Centralized firmware image management

- Alert management – SNMP v3 and SMTP based email alert support



AMI's chassis management firmware solution implements the Open Blade Architecture System Management Specification from the Server System Infrastructure (SSI) Forum, an industry organization promoting design guidelines for blade chassis components and interfaces. The group, which aims to expand the product offering available in the market at a price point interesting for SMBs, gathers support from major industry players such as Asus, Dell, Intel, Quanta, SuperMicro and many others.

MegaRAC CM is a robust linux-based management stack including an embedded web server. The software performs discovery, health monitoring and management of all the modules inside the blade chassis: compute blades, Baseboard Management Controllers (BMCs), I/O modules, power supplies, cooling devices etc.

MegaRAC CM management functions include:
- fail-over support (optional component)
- power and cooling management
- chassis initialization
- blade authentication
- blade presence hardware detection
- blade state management
- new blade discovery event
- new CMC initialization



Discovery is based on universal standard protocols, such as UPnP, RMCP Ping, SNMP, SLP and WS-Discovery. Management of the chassis components is based on AMI's MegaRAC© SP firmware stack and on the IPMI 2.0 (Intelligent Platform Management Interface) Protocol. MegaRAC CM supports the Distributed Management Task Force (DMTF) management standards for interoperability, such as the Common Information Model, WS-Man for management through web services and SMASH-CLP for text line console and scripting.

MegaRAC CM relies on a robust 10/1000 Ethernet vLAN, a private network internal to the chassis for communication between the CMCs and the IMC/BMC within each blade. Virtual BMC technology provides the chassis manager with faster access to blade FRU information.

MegaRAC CM provides optional support for two redundant chassis management modules in active-passive fail-over configuration. This means that one management unit is active all the time, while the second unit, in stand-by, is ready to take service in case of failure of the primary CMC. A Consolidated Chassis Event Log (CEL) registers events for all processor blades and other modules.

MegaRAC CM can be easily customized and extended with AMI's Integrated Development Environment for management, MegaRAC DS, based on the industry-popular IDE Eclipse. MegaRAC DS includes Visual Web Developer (WVD), Software Development Kits for CIM, SMASH and WSMAN software development and an IPMI PDK for the graphical layout of platform sensors.

AMI's management products are designed to provide OEMs with the most advanced technologies, with a special focus on porting tools that preserve your investment over time.