

MegaRAC® RM-X Rack Management Firmware



Linux®-based Rack Management Firmware for discovery, health monitoring and management of rack resources, in compliance with Scorpio and other Rack Design standards

The MegaRAC® RM-X Rack Management Firmware Solution from American Megatrends Inc. (AMI) is a robust Linux™-based management stack for powerful yet simple discovery, health monitoring and management of all of the resources and modules inside a rack, including compute blades, Baseboard Management Controllers (BMCs), I/O modules, power supplies, cooling devices and more.

At its core, MegaRAC RM-X is focused on support for a wide range of industry-standard rack design protocols, such as Scorpio and Open Rack from the Open Compute Project, and keeps an eye on compliance with future rack design - thanks to its ease of portability and customization capabilities. MegaRAC RM-X utilizes the Intel® Rack Scale Design (RSD) Rack Management Module (RMM) REST-API specification, from a leading industry organization focused on promoting standardized design guidelines for rack systems and their interfaces.

To deliver such powerful monitoring and control of rack assets, the key management capabilities of MegaRAC RM-X Rack Management Firmware include:

- Rack initialization
- Rack resource presence / hardware detection
- Rack resource state management
- Power and cooling management
- DMTF Redfish™ support
- Intel RSD RMM-based event support
- Node monitoring (OEM-specific feature)

HIGHLIGHTS

- Rack initialization
- Rack asset resource monitoring, including PSU, MBP, drawers, nodes and fans (FCB)
- Asset tracking and management for all rack product data and FRUs
- Rack event log
- Power & PSU monitoring
- Shared thermal management
- Compliant with Intel® Rack Scale Design (RSD) Rack Management Module (RMM) REST API specification
- DMTF Redfish™ Protocol Support, including Redfish-based alert management

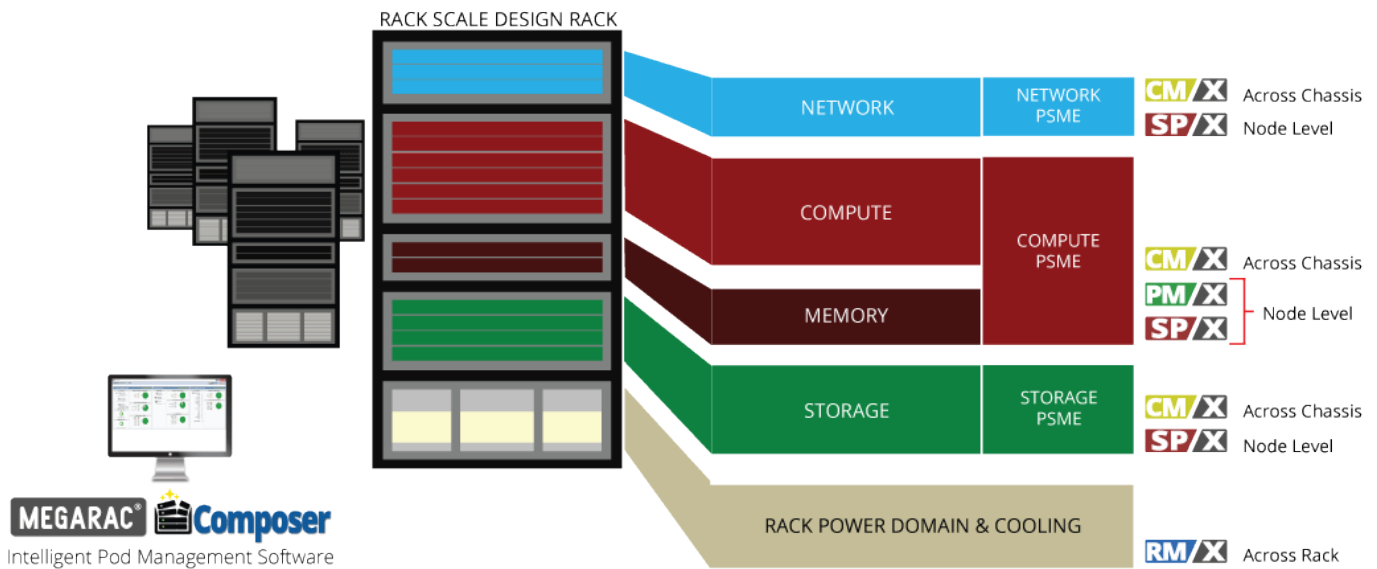
INDUSTRY-STANDARD PROTOCOL SUPPORT

Resource discovery in MegaRAC RM-X is based on standard protocols like RMCP Ping / Pong, as well as the Intelligent Platform Management Interface (IPMI) 2.0 and I2C protocols - which also provide deep configuration options for OEMs and ODMs. The AMI proprietary technologies for rack component management in MegaRAC RM-X are proven and field-tested, and also found in the popular MegaRAC SP-X Service Processor Firmware.

SIMPLE CUSTOMIZATION AND EXTENSION

Management products from American Megatrends are designed to provide OEMs with the most advanced technologies, with a special focus on providing useful porting tools that preserve investment in development efforts over time.

MegaRAC RM-X can be easily customized and extended with MegaRAC DS, the Integrated Development Environment (IDE) for AMI management tools which is based on the widely-used Eclipse™ IDE. MegaRAC DS includes a Visual Web Developer (WVD) tool, Software Development Kits for SMASH as well as a PDK for the development of customer-specific resource monitoring code.



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