

# Rackable Systems Roamer™ Remote Management

## Advanced Remote Management Administration Tools

### Key Benefits

- Manage distributed servers from a remote location
- Extensive security is available via LDAP/AD authentication, SSH and SSL
- Boasts a rich array of command line and Web graphical user interface (GUI) features
- LCD provides instant server status and programmable messages
- Keyboard, video and mouse (KVM) support over TCP/IP
- Out-of-band remote management capabilities including KVM, virtual media, power and reset control, temperature monitoring and more
- Execute an orderly power down for maintenance
- Diagnose a failure and perform a server restart
- Configuration support for http, https, ssh, telnet, IPMI and SNMP services
- SNMP services enables integration with 3rd party administration and monitoring tools
- Does not consume valuable PCI slots
- Ships fully installed in a system for quick and easy deployment

### Holistic Solution

As data center complexity increases, so does the burden of server management. In response to this growing challenge, Rackable Systems has developed its Roamer™ remote management technology, a complete lights-out solution using innovative in-band and out-of-band techniques via a serial or Ethernet interface. Administration can be performed on countless servers from one secure, central location—resulting in dramatically reduced workload for systems administrators while improving overall server reliability and serviceability.

Available on all Rackable Systems servers and most storage products, our Roamer technology is interoperable with all processor technology and operating systems. Using SNMP agents, Roamer integrates with 3rd party data center management products for a more holistic implementation.

### Robust Feature Set

The remote card and interface enable administrators to monitor a system's health and remotely control major server functions—such as KVM over IP, reboot, power cycling, stagger-starts, BIOS settings, virtual media, administrator security and authentication—while simultaneously monitoring and reporting on vital functions. The easy-to-use command line interface and Web browser-based graphical user interface provide direct management of the 40 character LCD and the LED. Unscheduled server downtime is easier to diagnose and resolve for fewer maintenance headaches.

**Control BIOS settings** – Easily change BIOS settings through serial redirection.

**Power-on delay** – Minimizes peak power during rack-wide power-on, reducing spike power requirements by up to 31%.

**Turn systems on and off** – Out-of-band access allows servers to be rebooted or turned on/off to save power, with no dependence on a server's motherboard or operating state.



**Customized LCD display** – Change LCD display text to show IP address, hostname, CPU load, maintenance information or customized message.

**Trigger LED and LCD** – Notify data center technicians which server needs service by animating red LED on front of server or sending message to LCD screen.

**Monitor temperature** – Track system power status and ambient case temperature.

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### Simplified Server Management

Rackable Systems' Roamer remote management technology dramatically simplifies server management and reduces data center maintenance time and operational costs. Coupled with the key benefits of our patented, back-to-back mounting and server design—with features including I/O in front and leading-edge cooling technologies—data center administrators are able to manage and service machines in a fraction of the time typically required. Because we perform all hardware integration and ship our solutions fully racked, stacked and cabled, no additional installation time is required for Roamer technology.

### Seamless Integration

Data centers today are increasingly challenged by the burden of managing systems that are widely distributed across various locations and time zones. Higher density levels have further burdened administrators who, in many cases, monitor thousands of nodes with reduced staff and shrinking budgets. Rackable Systems' Roamer technology can be easily and seamlessly integrated with any console server, or connected via a management network, enabling administrators to immediately perform mission-critical tasks in a fully remote mode.

Asset management capabilities enable administrators to easily and quickly locate equipment serial numbers, asset tags, MAC addresses and more. Plus Roamer's multi user capabilities enable up to 15 (fifteen) simultaneous administrators to chat and instant message.

### Advanced Functionality

Roamer is delivered with a scratch pad that enables administrators to enter and store a series of commands and scripts. This very powerful feature enables incremental activities to be automatically launched based on time, date, true, false and a variety of other interrupts. Thus administrators can implement service level agreements (SLAs), data center policy management routines, customized event notification and numerous other monitoring and housekeeping functions.

### World-Class Service and Support

Rackable Systems support professionals are committed to ensuring our customers' complete satisfaction. Our products are fully backed by a range of warranty and support offerings including full telephone, online and onsite support. The Rackable Systems Professional Services team is available to help with solutions outside traditional support packages in areas ranging from HVAC, power and network design to customer-specific operating system solutions.

### Roamer Features

#### Remote Control

- Remote text console
  - Text console scroll back
- Graphical remote console
  - Access for up to 15 simultaneous users
  - Administrator chat
  - Crash screen capture
- Remote serial console
  - Linux console
  - Windows EMS
- Virtual power button
- Virtual indicators
- Virtual media
- Visual notification
- Multicolor identification light emitting diode (LED)
- Roamer liquid crystal display (LCD)

#### Security & Authentication

- Security (SSH and SSL)
- Local user accounts
- Directory services integration (LDAP/AD)

#### Interface

- Browser accessible (Internet Explorer and FireFox)
- Command line accessible
- IPMI 2.0 and serial on LAN

#### Device Management

- IP/DNS from static or DHCP settings
- Dedicated network connectivity
- Remote firmware update
- SNMP integration
- Auxiliary power
- Scratch space
- WS-management support

#### Logging

- Local event log
- Remote syslog capability