Avocent Universal Management Gateway 6000

The converged management solution for complete data center access and monitoring

A key challenge customers are facing is how to securely and remotely manage the IT infrastructure in a heterogeneous environment in a more productive, standard way. Customers need to address configuration/provisioning and problem management issues while maintaining current cost structure to meet their business needs. Further, mitigating risks arising from the implementation of key IT initiatives is critical to ensure infrastructure availability, access, accuracy and agility. Customers need to improve operational efficiency and the ability to scale to meet their business requirements.

The Avocent® Universal Management Gateway 6000 is the first converged management appliance that enables customers to remotely manage any device, in any location, from any vendor, at any time, in a secure, centralized manner. Customers can implement a standardized approach to infrastructure management while improving operational efficiency and easily scale to

meet business needs. The appliance integrates Digital KVM, serial console, service processor and environmental management in a single U platform, enabling customers to experience complete data center access and monitoring.

A unified approach for infrastructure management

Today, IT infrastructure is managed with access and control technologies such as KVM, serial console and embedded server management. Facilities infrastructure is managed through the real-time data collection and monitoring of those physical assets. Because the Avocent Universal Management Gateway appliance integrates those capabilities into a single chassis, data center managers no longer need multiple infrastructure management tools.
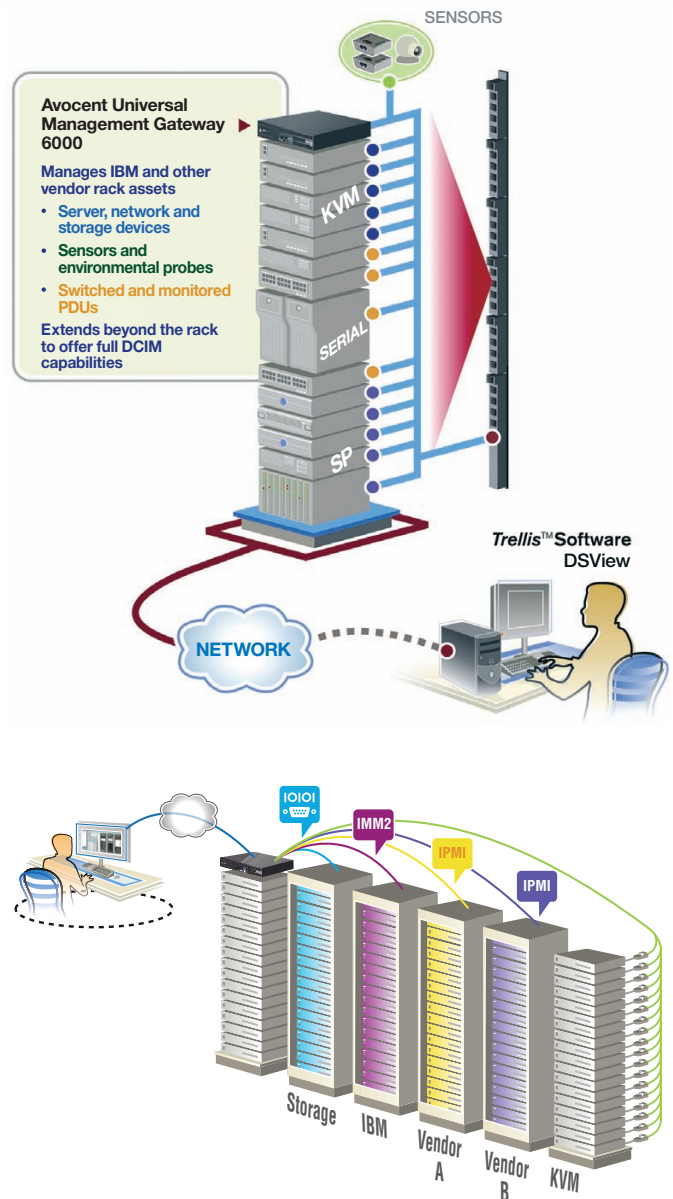
Secure, access and control for the data center

When stand-alone or combined with the Avocent DSView™ management software, the Avocent Universal Management Gateway 6000 appliance provides secure centralized remote management to IT assets such as servers, network, and storage devices. The appliance provides secure, remote and local connectivity to out of band, side-band and in-band management interfaces on data center devices, regardless of the operational state of the device's networking or operating system. Browser-based sessions provide appropriate tools for triage. The Gateway offers a single solution that simplifies remote management of devices no matter where they are located and regardless of the technology.

Distinct capabilities include:

- Auto-sensing and device discovery—The appliance has the ability to automatically sense and connect to new devices directly connected to a physical port on the appliance, thus eliminating the time-consuming task of manually reconfiguring infrastructure changes. The appliance has 40 ports and can automatically detect if the port is connected for KVM, serial or embedded server management. Device discovery occurs over the network and the appliance can automatically discover, identify and connect up to 1,024 embedded service processor targets.
- Heterogeneous server support—The appliance offers a single console management tool can be used to manage servers, regardless of vendor or operating system, and embedded service processors, regardless of technology.

SENSORS

Avocent Universal Management Gateway 6000

Manages IBM and other vendor rack assets
- Server, network and storage devices
- Sensors and environmental probes
- Switched and monitored PDUs

Extends beyond the rack to offer full DCIM capabilities

KVM

SERIAL

SP

Trellis™**Software**
DSView

NETWORK

IOIOI
IMM2
IPMI
IPMI

Storage   IBM   Vendor A   Vendor B   KVM

Real-time monitoring for the data center

When combined with the Trellis™ platform, the Avocent Universal Management Gateway appliance efficiently discovers, collects and stores data from devices. The Trellis platform enables the user to easily perform trending, reporting and analysis.

Distinct capabilities include:

- Real-time data collection—For businesses operating high-density environments, speed is critical. The appliance collects data from distributed environments and heterogeneous equipment (IT and facilities) in real time. Continuous streams of data are collected and aggregated in seconds by connecting natively to the device.
- Complex event processing—Using a set of unique techniques and tools, the data collected by the appliance is filtered so that only relevant information is provided to a specific user. This processing helps the user to understand and control event-driven information systems.

Solution benefits

- Consolidated centralized access to racks/blades improves operational efficiency, freeing resources to focus on initiatives that generate higher business value
- Complete data center connectivity reduces complexity and accelerates IT standardization
- Managing assets from a single pane of glass in real-time enhances data center efficiency and enables better incident triage and quicker response
- Provides a secure environment and improves compliance and auditing tasks for customers considering colocation and Cloud implementations

Why System x

System x® is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

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For more information

To learn more about the Avocent Universal Management Gateway 6000, visit: **ibm.com**/systems/x/options/rackandpower/umg/index.html or contact your Lenovo representative or Business Partner.

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