



## Paragon II

Paragon II is a stackable, Cat5 KVM switch that allows IT staff to manage thousands of servers.

### P2-UMT242

- 2-user
- Up to 42 ports

### P2-UMT442

- 4-user
- Up to 42 ports

### P2-UMT832

- 8-user
- Up to 32 ports
- Stacking unit capabilities

### P2-UMT1664

- 16-user
- Up to 64 ports
- Stacking unit capabilities

## Flexible, Secure Cat5 Analog KVM Solution with the Industry's Best Video Performance

### Higher Video Resolution Over Greater Distances, Non-Blocked Access for up to 64 Users, Optional IP Access, Centralized Management, and Smart Card Support

Paragon II is a Cat5 analog KVM solution that provides up to 64 users with secure, non-blocked access and control of data center devices. Its rich suite of management features enables logging and audit trails, system-wide reset from a user station and a single, consolidated view of all connected devices.

Scale up to thousands of servers to dramatically reduce costs of data center equipment and rack space.

### The Industry's Best Video Performance

Paragon II offers the industry's best video quality with resolutions as high as 1920 x 1440 at distances of up to 1,000 feet at refresh rates of 60 Hz, and 1600 x 1200 at distances greater than 1,000 feet at refresh rates of 60 Hz, 75 Hz and 85 Hz. Paragon II also enables widescreen resolutions such as 1440 x 900.

Multiple Video enables up to four user stations to simultaneously receive the video output of a server that has multiple video ports. And Video Redirect provides easy redirection of video to any user station within a Paragon II system – a natural fit for NOC displays, video walls, broadcast control rooms and more.

With Paragon's Enhanced User Station (P2-EUST), Paragon II also supports both manual and automatic video tuning and skew compensation, allowing administrators to save time on server setup and fine-tune the video signal as desired.

### Integrated Smart Card Reader for Enhanced Security

Organizations that are concerned with security require standard and secure ways for IT professionals to access critical information. Paragon II supports multifactor authentication access with smart card technology, which strengthens security, contributes to compliance with U.S. Homeland Security HSPD-12 and increases staff productivity by simplifying administrative tasks.

Partnering with SCM Microsystems, a leading supplier of standards-compliant smart card readers, Raritan integrated the SCM reader into our Paragon II Enhanced User Station (model numbers P2-EUST/C and P2-EUST/C-GOV). The Paragon II smart card reader solution supports CAC and PIV cards, and is FIPS 201 approved.

### Flexibility and Scalability Built In

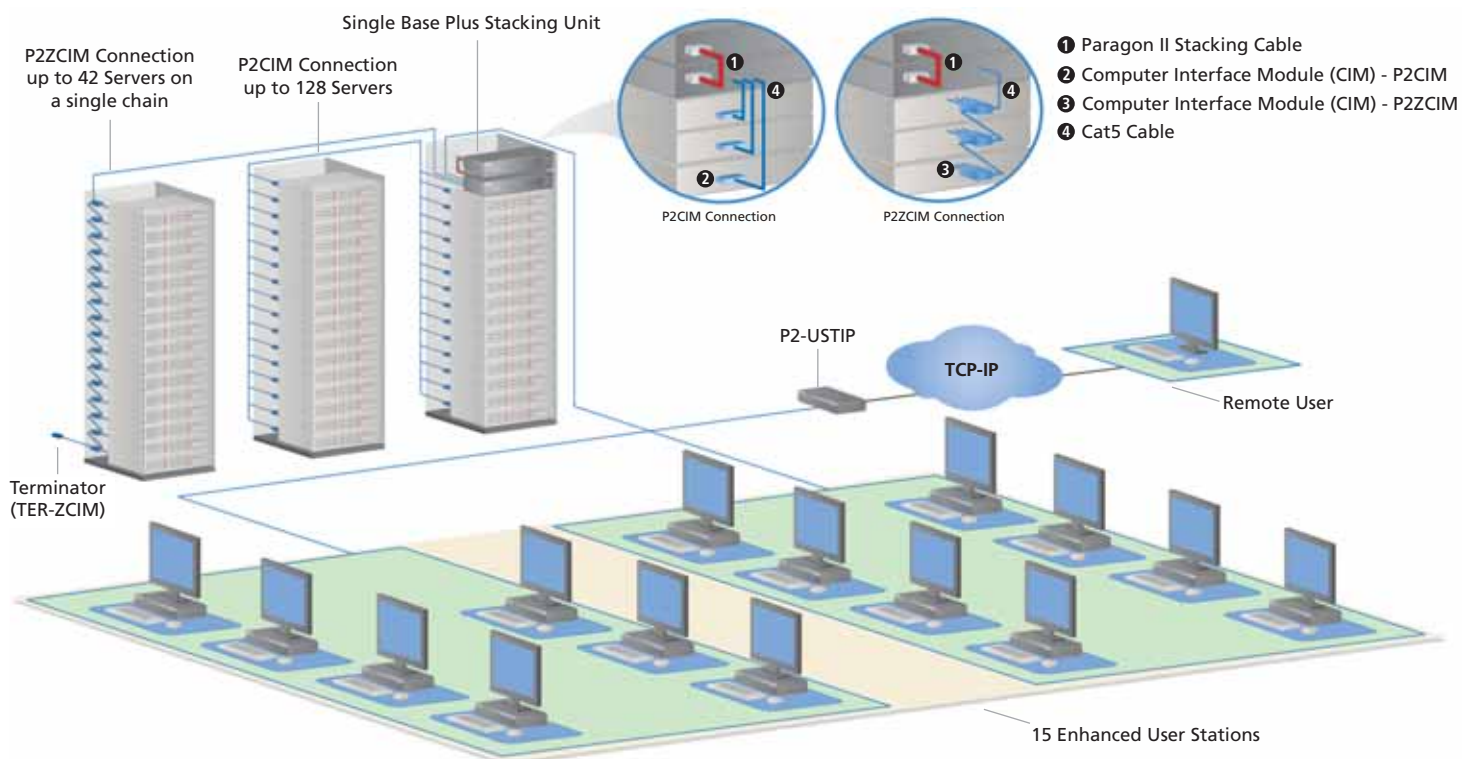
Paragon II offers great flexibility and manageability through access to leading servers – including IBM BladeCenter® – power strips and other IT devices. Optional KVM-over-IP access is available for remote access along with centralized management through Raritan's Paragon II System Controller and CommandCenter® Secure Gateway.

# An Innovative Modular Architecture

Paragon II distributes KVM switching and control functions across modular, intelligent components, including:

- ▶ **Main Switching Unit (M model)** – A secure, intelligent non-blocked control unit that connects users to servers. Its stackable architecture provides the industry's highest port density, making it ideal for large data centers with densely packed racks.
- ▶ **Stacking Unit (S model)** – A unique, cost-effective, space-saving expansion unit that easily brings each switch up to 128 non-blocked server ports with less cable than cascading. Stacking units are compatible with Paragon II models P2-UMT832M and P2-UMT1664M. These units reduce the clutter of multiple cables between tiers as well as save rack space and HVAC costs.
- ▶ **Enhanced User Station (P2-EUST)** – Connects the user's keyboard, video and mouse to the main switching unit. Fits conveniently under the user's monitor, and includes an intuitive On-Screen User Interface (OSUI) for easy access to attached servers.

- ▶ **Enhanced User Station with an integrated Smart Card Reader (P2-EUST/C)** – In addition to all of the features available in the Enhanced User Station, the P2-EUST/C offers the added security of an integrated smart card reader. The Paragon II smart card reader solution is FIPS 201 approved and supports the use of CAC and PIV cards.
- ▶ **User Station with integrated IP access (P2-USTIP)** – Provides browser-based, KVM-over-IP capability. The P2-USTIP uses the familiar Raritan Remote Client GUI and combines user station and IP gateway functionality into a single device with a slim form factor. It also provides power on/off/recycle capabilities for remote power strips. The P2-USTIP supports 128-bit SSL encryption and local authentication through the Paragon II, or centralized authentication when used with Raritan's CommandCenter Secure Gateway.
- ▶ **User Expansion (P2-HUBPAC)** – Now field-upgradeable, connects up to four Paragon II KVM switches, giving up to 64 users non-blocked access to target devices.



Note: This is a sample configuration design; Raritan products support a variety of configurations and solution sizes.

# Paragon II - Engineered for the Enterprise

- ▶ **Computer Interface Module (CIM)** – Connects Cat5/5e/6 cabling from the switch to the keyboard, video and mouse ports of the target server (including IBM BladeCenter), providing "keep-alive" keyboard/mouse emulation to the server.
- ▶ **Daisy Chain Capabilities (P2ZCIM)** – Easily connect up to 42 PS/2®, Sun® and/or USB servers on a single Cat5 cable chain, using only one server port on a Paragon II unit. Extend distances of up to 1,000 feet from the Main Switching Unit to the last P2ZCIM in the chain.
- ▶ **System Controller (P2-SC)** – Allows multiple Paragon II switches to be controlled by CommandCenter Secure Gateway (CC-SG), Raritan's enterprise management software appliance.

## A Proven Enterprise Solution

Paragon II is a proven, stackable switch, the perfect infrastructure component for all high-density server environments, including:

- ▶ Corporate data centers
- ▶ Server farms
- ▶ Co-location facilities
- ▶ Web-hosting facilities
- ▶ Hardware and software testing labs
- ▶ Broadcast production facilities (via Deko® FastAction Keyboard support)

## Designed to be Scalable

- ▶ Add, relocate and hot-swap components without disruption as your data center needs change
- ▶ Add stacking units for up to 128 server ports
- ▶ Easily connect up to 42 Sun, USB and/or PS/2 servers on a single Cat5 cable chain, using P2ZCIMs
- ▶ May be deployed individually or integrated with any of Raritan's enterprise-wide data center solutions, including CommandCenter Secure Gateway

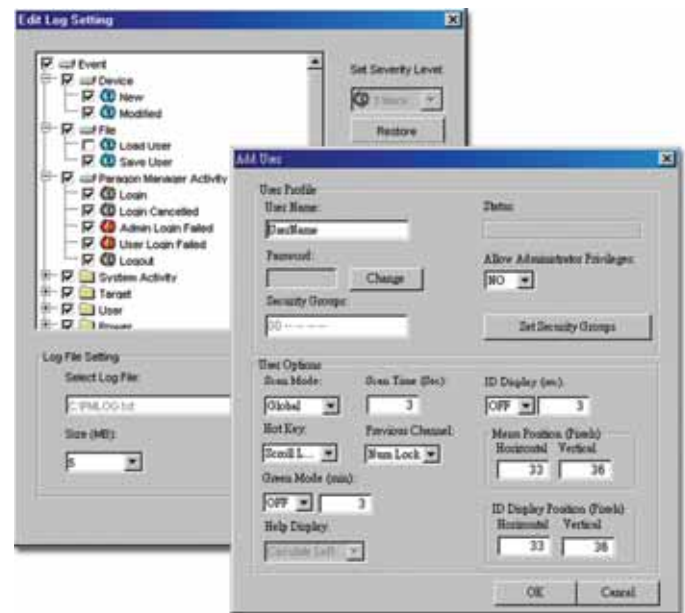
## Engineered to be Flexible

- ▶ Streamlines management capabilities with event logging and audit trails
- ▶ Distributed architecture lets you physically position servers and users where desired
- ▶ Multiple Video enables multiple user stations to simultaneously view the video outputs of servers with multiple video ports (two or four)

- ▶ Seamless access to all operating systems, platforms and connections: Linux®, Windows® NT, UNIX®, Novell®, Sun, IBM® RS/6000® and pSeries®, IBM BladeCenter, HP9000®, Alpha™, SGI®, ASCII/serial, USB or PS/2
- ▶ In addition to standard mice and keyboards, also supports the Kensington Expert Mouse®, primarily used in Mac® environments, and CORTRON® keyboards, designed for use in rugged, harsh environments

## Paragon Manager™ Software for Easier Administration

- ▶ A single, consolidated view of all connected devices
- ▶ Add, remove or edit users
- ▶ Automatically detect power strips and associate power outlets with attached devices
- ▶ Perform system-wide firmware upgrades
- ▶ Log and audit system events



## Integrated Power Management for Convenience

- ▶ Power on, power off or recycle power to servers and other attached devices
- ▶ Define security levels for individual users on a per-outlet basis
- ▶ Automatically displays power strips and Paragon II targets on the connected ports

# P2-SC Brings Paragon II Switches Under Centralized Command

## Paragon II System Controller

Paragon II System Controller (P2-SC) is an intelligent interface device that allows multiple Paragon II systems to be accessed and controlled from a centralized CommandCenter Secure Gateway management appliance. With P2-SC, CommandCenter Secure Gateway seamlessly integrates Paragon II's non-blocked access and Cat5 analog KVM switching with the efficiency and flexibility of Raritan's Dominion Series of KVM-over-IP switches, serial-over-IP secure console servers and remote office/branch office remote management appliances.



CommandCenter Secure Gateway provides a single sign-on to a single interface, giving your administrators a 360-degree view, click-and-control access and BIOS-level control of all of your servers and IT devices, whether they're at the rack, at their desks, in the NOC or anywhere in the world. The result: increased uptime, dramatically increased IT productivity and vastly reduced incident response times and mean time to fix failures.

## By bringing Paragon switches under CommandCenter Secure Gateway control, P2-SC:

### Simplifies access

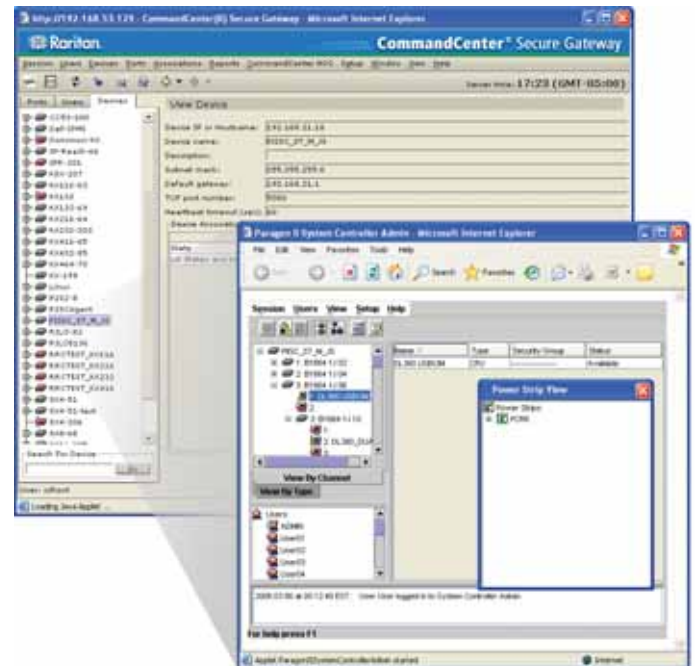
- ▶ Supports single sign-on and centralized authentication and authorization of remote Paragon II users
- ▶ Eliminates the need to maintain a list of Paragon II IP addresses

### Enhances security

- ▶ Centrally authenticates and authorizes remote users to Paragon systems

### Increases efficiency

- ▶ Logs and presents system activity and user changes
- ▶ Allows administrators to centrally upgrade Paragon II firmware



### Improves Usability

- ▶ Manages user profiles
- ▶ Provides a central view of all target and multi-base units
- ▶ Supports system-wide reset of all servers within a Paragon II matrix
- ▶ Supports Raritan power strips

### Increases Scalability

- ▶ Supports up to eight Paragon II base units per subnet
- ▶ Supports tiering from Paragon II base units (up to 3 tiers)
- ▶ Supports Paragon II stacking architecture
- ▶ Supports tiering configurations

# Specifications



P2-UMT832M



P2-UMT832S

Paragon II Main Switching Units	Description	Dimensions - (WxDxH)	Weight	Power
<b>P2-UMT1664M</b>	16 users x 64 server ports, expansion slot, stacking port, network port	17.32" x 11.41" x 3.5"; 440 x 290 x 89mm	12.52 lbs; 5.68 kg	100V/240V 50/60 Hz 0.6A
<b>P2-UMT832M</b>	8 users x 32 server ports, expansion slot, stacking port, network port	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	9.83 lbs; 4.46 kg	100V/240V 50/60 Hz 0.6A
<b>P2-UMT442</b>	4 users x 42 server ports, expansion slot, network port	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	10.13 lbs; 4.59 kg	100V/240V 50/60 Hz 0.6A
<b>P2-UMT242</b>	2 users x 42 server ports, network port	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	10.03 lbs; 4.54 kg	100V/240V 50/60 Hz 0.6A

Paragon II Stacking Units	Description	Dimensions - (WxDxH)	Weight	Power
<b>P2-UMT1664S</b>	64 expansion server ports for stacking with P2-UMT1664M unit	17.32" x 11.41" x 3.5"; 290 x 440 x 89mm	11.99 lbs; 5.44 kg	100V/240V 50/60 Hz 0.6A
<b>P2-UMT832S</b>	32 expansion server ports for stacking with P2-UMT832M unit	17.32" x 11.41" x 1.75"; 290 x 440 x 44mm	8.99 lbs; 4.08 kg	100V/240V 50/60 Hz 0.6A



P2-EUST



P2-EUST/C (P2-EUST/C-GOV)



P2-USTIP1

Paragon II User Stations	Description	Dimensions - (WxDxH)	Weight	Power
<b>P2-EUST</b>	Analog access point that provides enhanced video for PS/2, USB and Sun consoles	11.4" x 10.62" x 1.75"; 290 x 270 x 44mm	4.3 lbs; 1.9 kg	100V/240V 50/60 Hz 0.6A
<b>P2-EUST/C (P2-EUST/C-GOV)</b>	Analog access point that provides enhanced video for PS/2, USB and Sun consoles: includes integrated smart card reader (FIPS 201 approved)	11.4" x 10.62" x 1.75"; 290 x 270 x 44mm	4.8 lbs; 2.2 kg	100V/240V 50/60 Hz 0.6A
<b>P2-USTIP1</b>	Remote digital access point for 1 KVM/IP user	17.2" x 11.46" x 1.72"; 440 x 291 x 44mm	8.05 lbs; 3.65 kg	115V/230V 50/60 Hz 0.3A
<b>P2-USTIP2</b>	Remote digital access point for 2 KVM/IP users	17.2" x 11.46" x 1.72"; 440 x 291 x 44mm	8.16 lbs; 3.70 kg	115V/230V 50/60 Hz 0.6A



P2-SC

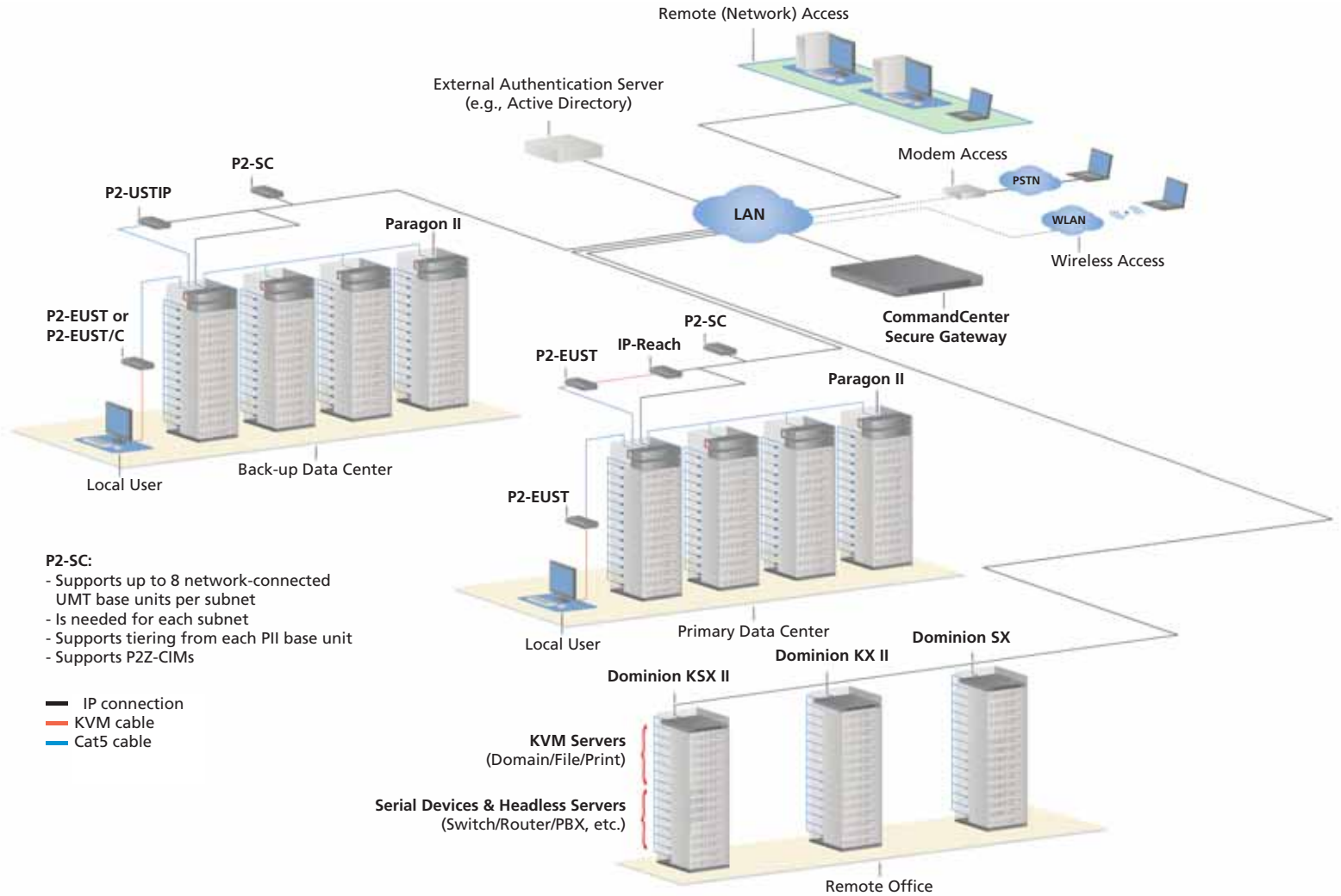
Paragon II System Controller	Description	Dimensions - (WxDxH)	Weight	Power
<b>P2-SC</b>	Access and controller for multiple Paragon II Systems	11.41" x 17.32" x 1.75"; 290 x 440 x 44mm	9.03 lbs; 4.1kg	100/240V 50/60 Hz 2.0A

Paragon II CIMs	Description	Paragon II CIMs	Description
<b>P2CIM-APS2</b>	CIM for PS/2 provides automatic skew compensation with P2-EUST	<b>P2ZCIM-PS2</b>	ZCIM for PS2
<b>P2CIM-ASUN</b>	CIM for Sun provides automatic skew compensation with P2-EUST	<b>P2ZCIM-SUN</b>	ZCIM for Sun
<b>P2CIM-AUSB</b>	CIM for USB/Sun USB provides automatic skew compensation with P2-EUST	<b>P2ZCIM-USB</b>	ZCIM for USB. Features a toggle switch to allow use with both Sun and non-Sun USB computer
<b>P2CIM-AUSB DUAL</b>	USB CIM, provides 2 separate channel ports and supports automatic skew compensation with P2-EUST	<b>P2CIM-PWR</b>	CIM for remote power control
<b>P2CIM-APS2 DUAL</b>	CIM for PS/2 provides 2 separate channel ports and supports automatic skew compensation with P2-EUST	<b>P2CIM-SER</b>	CIM for serial (ASCII) devices
<b>P2CIM-APS2-B</b>	PS/2 CIM for use with IBM BladeCenter; supports automatic skew compensation	<b>TER-ZCIM</b>	RJ45 Terminator
<b>P2CIM-AUSB-B</b>	USB CIM for use with IBM BladeCenter; supports automatic skew compensation		
<b>P2CIM-AUSB-C (P2CIM-AUSB-C-GOV)</b>	USB CIM for use with smart card-enabled servers; supports automatic skew compensation		

<b>Warranty</b>	Two Years with Advanced Replacement*
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\*To qualify for advanced replacement under the standard warranty, you must register the product at [http://Raritan.com/standard\\_warranty](http://Raritan.com/standard_warranty)  
Specifications are subject to change without notice.

# Paragon II - A Part of Your Centrally-Controlled Enterprise



Note: This is a sample configuration design; Raritan products support a variety of configurations and solution sizes.

**Ready to learn more about Paragon II?**  
 Call 1.800.724.8090 or visit [www.raritan.com/Cat5-KVM/](http://www.raritan.com/Cat5-KVM/) today

Raritan is a leading supplier of solutions for managing IT infrastructure equipment and the mission-critical applications and services that run on it. Raritan was founded in 1985, and since then has been making products that are used to manage IT infrastructures at more than 50,000 network data centers, computer test labs and Multiworkstation environments around the world. From the small business to the enterprise, Raritan's complete line of compatible and scalable IT management solutions offers IT professionals the most reliable, flexible and secure in-band and out-of-band solutions to simplify the management of data center equipment, applications and services, while improving operational productivity. More information on the company is available at [Raritan.com](http://Raritan.com).

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